

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

November 13, 2018

Jake Vukich FMC Corporation P.O. Box 30 Newark, DE 19714-0300

Subject: PRIA Label Amendment – To add new uses and crop group conversions for

Coffee; Caneberry Subgroup 13-07A; Low Growing Berry Subgroup 13-07H, Except Strawberry, Lowbush Blueberry and Lingonberry; *Brassica* Leafy Greens Subgroup 4-16A; Leafy Greens Subgroup 4-16B; *Brassica* Head and Stem Vegetable Group 5-16; Leaf Petiole Vegetable Subgroup 22B; Soybean

Product Name: Exirel Insect Control EPA Registration Number: 279-9615

Application Date: 10/23/17; 10/23/17; 09/22/17 Decision Number: 535255; 535254; 535136

Dear Mr. Vukich:

The application referred to above, submitted under the Federal Insecticide, Fungicide and Rodenticide Act, as amended is acceptable under FIFRA sec 3 (c)(5). You must submit and/or cite all data required for registration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Gene Benbow by phone at 703-347-0235, or via email at Benbow.Gene@epa.gov.

Sincerely,

Meredith F. Laws, Chief

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Invertebrate & Vertebrate Branch 3 Registration Division (7505P)

Office of Pesticide Programs

Enclosure



WITH CYAZYPYR® active

For foliar applications to brassica (leafy, and head and stem), bulb, cucurbit, fruiting, leafy green, leaf petiole, legume, root and tuberous and corm vegetables; commercially grown greenhouse cucumber, eggplant, pepper and tomato; cotton, oil seed crops; strawberries; bushberries; caneberries; coffee; low growing berries; peanuts; soybeans; citrus, pome, and stone fruits; tree nuts; and tobacco for pest management of sucking and chewing insects that can vector certain plant diseases, aiding in optimization of the crop's potential.

Active Ingredient				By Weight
Cyantraniliprole	1) 31 54	0 1 1 6 5 6		
3-bromo-1-(3-chloro-2-pyridir carboxamide	iyl)-N-[4-cyano	o-2-methyl-6-[(n	nethylamino) carbonyl]phenyl]-1H-pyrazole-5-	10.20%
Other Ingredients				89.80%
TOTAL				100.00%
EXIREL® insect control is a su	uspoemulsion (d	oil in water emu	sion). SHAKE WELL BEFORE USING.	
Contains 0.83 lb. active ingred	lient per gallon.			
EPA Reg. No. 279-9615			EPA Est. No.	
Nonrefillable Container		Refillal	ole Container	
Net:	OR	Net:		
Not for sale, sale into, distribu	tion and/or use	in Nassau and S	uffolk counties of New York State.	

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understandthe label, find someone to explain it to you in detail.)

FIRST AID

IF ON SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice. For questions regarding emergency medical treatment, you may contact 1-800-331-3148 for information.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

Chemical resistant gloves Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all > 14 mils.

Shoes plus socks.

FMC Corporation 2929 Walnut Street Philadelphia, PA 19104

ACCEPTED

11/13/2018

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 279-9615

After the product has been diluted in accordance with label directions for use, shirt, pants, socks, and shoes are sufficient Personal Protective Equipment. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

PHYSICAL OR CHEMICAL HAZARDS

Do not place product near or allow product to come into contact with strong oxidizing substances (such as potassium permanganate) since a hazardous chemical reaction may occur.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates and oysters. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to use sites. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging the treatment area.

Surface Water Advisory-

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several weeks after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of cyantraniliprole from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

Ground Water Advisory-

This chemical has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

PROTECTION OF POLLINATORS

APPLICATION RESTRICTIONS EXIST FOR THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER INSECT POLLINATORS. FOLLOW APPLICATION RESTRICTIONS FOUND IN THE DIRECTIONS FOR USE TO PROTECT POLLINATORS.

Look for the bee hazard icon in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

This product can kill bees and other insect pollinators.

Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar.

Bees and other insect pollinators can be exposed to this pesticide from:

- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications
- Ingestion of residues in nectar and pollen resulting from foliar applications.

When Using This Product Take Steps To:

- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants in and around the application site.
- Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at: http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx.

Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state, go to: www.aapco.org/officials.html. Pesticide incidents should also be reported to the National Pesticide Information Center at: www.npic.orst.edu or directly to EPA at: beekill@epa.gov

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements, specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

1. FOR CROPS UNDER CONTRACTED POLLINATION SERVICES

Do not apply this product while bees are foraging. Do not apply this product until flowering is complete and all petals have fallen unless the following condition has been met.

• If an application must be made when managed bees are at the treatment site, the beekeeper providing the pollination services must be notified no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying.

2. FOR FOOD CROPS AND COMMERCIALLY GROWN ORNAMENTALS NOT UNDER CONTRACT FOR POLLINATION SERVICES BUT ARE ATTRACTIVE TO POLLINATORS

Do not apply this product while bees are foraging. Do not apply this product until flowering is complete and all petals have fallen unless one of the following conditions is met:

- The application is made to the target site after sunset
- The application is made to the target site when temperatures are below 55°F
- The application is made in accordance with a government-initiated public health response
- The application is made in accordance with an active state-administered apiary registry program where beekeepers are notified no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying
- The application is made due to an imminent threat of significant crop loss, and a documented determination consistent with an IPM plan or predetermined economic threshold is met. Every effort should be made to notify beekeepers no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying.

RESTRICTIONS

- Do not make ground applications within 25' or aerial applications within 50' of lakes, rivers, reservoirs, permanent streams, marshes, natural ponds, estuaries or coastal areas. Do not cultivate within 25' of these aquatic areas to allow growth of a vegetative filter strip.
- Do not treat plants grown for transplanting. Not for use in nurseries, plant propagation houses, or greenhouses by commercial transplant producers on plants being grown for transplanting.
- Do not use on crops grown to harvest in greenhouses unless specified in the crop section of this label.
- Do not apply EXIREL insect control to the soil or through drip irrigation systems.
- May be used on crops on this label grown for seed production.
- Do not use in residential areas.
- · Do not apply EXIREL insect control through any irrigation system unless specified in the crop section of this label.
- Unless otherwise stated for a specific crop, do not apply a total of more than 0.4 lb ai/A of CYAZYPYR active or cyantraniliprole containing products per calendar year. This is the total from all application methods (eg. seed, soil, foliar).

AGRICULTURAL USE REQUIREMENTS

EXIREL insect control must be used only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment, restricted-entry interval, and notification to workers (as applicable).

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

For early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, wear:

- Coveralls
- · Shoes plus socks
- Chemical resistant gloves Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all
- > 14 mils

EXIREL insect control must be used in accordance with the directions for use on this label, or as otherwise permitted by FIFRA. Always read the entire label, including the Limitation of Warranty and Liability.

EXIREL insect control is a suspoemulsion (oil in water emulsion) that can be applied as a foliar spray on labeled crops or by overhead chemigation in cranberries, potatoes and bulb vegetables to control listed insects. EXIREL insect control is specially formulated for maximum performance by foliar applications in brassica, bulb, cucurbit, fruiting, leafy, legume, root and tuberous and corm vegetables; commercially grown greenhouse cucumber, eggplant, pepper and tomato; cotton, oil seed crops; strawberries; bushberries; caneberries; coffee; low growing berries; peanuts; soybeans; citrus, pome, and stone fruits; tree nuts; and tobacco. Do not apply directly to the soil or through drip irrigation as doing so may damage the plant root system. EXIREL insect control is mixed with water for application.

EXIREL insect control is a member of the anthranilic diamide class of insecticides with a novel mode of action acting on insect ryanodine receptors. Although EXIREL insect control has contact activity, it is most effective through ingestion of treated plant material. After exposure to EXIREL insect control, affected insects will rapidly stop feeding, become paralyzed, and typically die within 1 - 3 days, reducing both direct damage and the transmission of some insect transmitted diseases. Early season applications of EXIREL insect control improve crop establishment and growth vigor by controlling a range of pests that attack seedlings. Time applications to the most susceptible insect pest stage, typically at egg hatch and/or newly hatched larvae or nymphs, before populations reach damaging levels. When pest populations are high, use the highest listed application rate for that pest. For best results when targeting control of sucking pests, begin applications when insect populations first appear. EXIREL insect control has preventative activity but low curative activity for sucking pests.

INTEGRATED PEST MANAGEMENT

FMC supports the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an IPM program, which can include biological, cultural, and genetic practices, aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, rotation of insecticides with different modes-of-action, and treating when target pest populations reach locally determined action thresholds. For best results on sucking pests, begin applications when populations first appear. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

SCOUTING

Monitor insect populations to determine if there is a need for application of EXIREL insect control based on label recommendations and locally determined pest management guidelines. More than one treatment of EXIREL insect control may be required to control a pest population.

INSECT RESISTANCE MANAGEMENT

EXIREL insect control contains the active ingredient cyantraniliprole and is a Group 28 insecticide based on the mode of action classification system of the International Insecticide Resistance Action Committee (IRAC). Insecticides with the same Group Number affect the same biological site of action on the target pest and when used repeatedly in the same treatment area, naturally-occurring resistant individuals may survive correctly applied insecticide treatments, reproduce, and become dominant.

To avoid or delay the development of insecticide resistance, a resistance management strategy should be established for the use area. This strategy may include incorporation of cultural and biological control practices, alternation to different mode of action insecticides on succeeding generations, and targeting the most susceptible life stage. Consult your local or state agricultural authorities and product manufacturer for more information about developing a resistance management strategy.

Unless directed otherwise in the specific crop/pest sections of this label, the best practices are to follow these guidelines to delay the development of insecticide resistance:

- Apply EXIREL insect control and other Group 28 insecticides within a single "treatment window" to minimize exposing multiple successive generations of a pest species to the same mode of action insecticides.
- A "treatment window" is defined as the period of insecticidal activity provided by one or more applications of products with the same mode of action.
- · A "treatment window", including residual control, should not exceed 30 days (the length of a typical pest generation).
- Within the Group 28 "treatment window", make no more than 2 applications of EXIREL insect control or other Group 28 insecticides.
- Following a Group 28 "treatment window", rotate to a "treatment window" of effective insecticides with a different mode of action (Group Number).
- The period between Group 28 "treatment windows" should be at least 30 days.
- The total exposure of all Group 28 products applied throughout the crop cycle (from seedling to harvest) should not exceed approximately 50% of the crop cycle or 50% of the total number of insecticide applications targeted at the same pest species.
- For short cycle crops (< 50 days), the duration of the crop cycle may be considered as the Group 28 "treatment window" as long as no Group 28 insecticides are used during the next crop cycle at the same farm location.
- Avoid using less than labeled rates of EXIREL insect control when applied alone or in tank mixtures.
- Target the most susceptible insect life stages whenever possible.
- Monitor insect populations for product effectiveness. If poor performance occurs and it cannot be attributed to improper
 application or extreme weather conditions, a resistant pest population may be present.

If resistance to EXIREL insect control develops in your area, EXIREL insect control or other products with a similar mode of action (Group 28) may not provide adequate control. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternate method of control for your area.

For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at http://www.irac-online.org.

APPLICATION

Apply at the specified rates when insect populations reach locally determined action thresholds. For best results on sucking pests, begin applications when pests first appear. Consult the cooperative extension service, professional consultants or other qualified authorities for local pest management guidelines in your area.

Apply follow-up treatments of EXIREL insect control, as specified, to keep pest populations under threshold limits. Refer to the Resistance Management section of this label for further guidance on follow-up treatments. See individual crop sections of this label for specific minimum spray intervals.

Use sufficient water to obtain thorough, uniform coverage.

EXIREL insect control may be applied by foliar ground or aerial application equipment. Not all application methods are allowed on all crops; see specific crop sections of this label or other supplemental labeling for application methods which may be used. For aerial application use the following directions unless otherwise specified in specific crop/pest sections of this label or other supplemental labeling: use a minimum of 5 gallons per acre (gpa) of water for vegetable crops and 10 gallons per acre (gpa) for all fruit and nut crops. The highest labeled rate for a specified pest may be necessary when aerial applications are made. For ground foliar applications use the following directions, unless otherwise specified in specific crop/pest sections of this label or other supplemental labeling: use a minimum of 10 gal per acre (gpa) of water for all vegetable crops and 30 gallons per acre (gpa) for all fruit and nut crops.

Use of Adjuvants - In some situations where coverage is difficult to achieve such as closed canopy, dense foliage, plants with waxy leaf surfaces, or less than optimum application equipment, an adjuvant may improve performance. Use a proven and recommended adjuvant that does not affect foliage and/or fruit finish. Tank mixes of EXIREL insect control with spreading and penetrating adjuvants can result in adverse crop response. See specific crop instructions in the following crop tables.

SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying EXIREL insect control. Fill spray tank 1/4 to 1/2 full of water. Add EXIREL insect control directly to spray tank. Mix thoroughly to fully disperse the insecticide, once dispersed continued agitation is required. Use mechanical or hydraulic means; do not use air agitation. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

Acidification of Spray Tank: If the pH of the spray tank after all products have been added and mixed is above pH 8, adjust to pH 8 or less using a registered acidifying agent. If the spray tank pH is 8 or less no adjustment of the spray tank pH is necessary. Spray tanks of pH 8 or less can be held for up to 8 hours before spraying. Do not store the spray mixture overnight in the spray tank.

Compatibility -Since formulations may be changed and new ones introduced, premix a small quantity of a desired tank mix and observe for physical incompatibility (settling out, flocculation, etc.). Spray volumes of less than 3 gallons of water and tank mixtures of more than two products can increase the chances of incompatible spray mixtures. A jar test (as described below) should be conducted when label guidance is not given or prior experience with a specific tank mixture is unknown. The jar test should follow the proper sequence of addition at the spray water volume planned to assure that the tank mix is compatible. Constant agitation may be needed during mixing and spraying of mixtures.

This product can be mixed with pesticide products labeled for use on crops on this label in accordance with the most restrictive of label limitations and precautions. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations, and directions for use, on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Steps to conduct a jar test to determine physical tank mix compatibility of EXIREL insect control with other products:

- Add clean water to jar proportional to the planned water volume that will be used in the spray tank (a jar size of 16 oz is acceptable).
- Using the most restrictive PPE of the products to be tested, mix proper proportions of EXIREL insect control and desired tank mix partner(s) as will be present in the spray tank, add one product at a time following the sequence of addition according to formulation type provided in this label.
- · Seal and shake mixture after each product is added.
- · Allow to stand for 1 hour.
- View jar to determine if settling, flocculation, crystallization or any other undesirable changes have happened.
- If none of the above is observed or the solution can be easily remixed after shaking, the mixture is compatible with EXIREL insect control.
- If the tank mix is not compatible, a higher water volume, reduced rate of the tank mix partner(s), reduced number of tank mix partners or a compatibility agent may be needed.

Tank Mixtures and Crop Safety - EXIREL insect control is an oil in water emulsion. The crop safety of EXIREL insect control alone or in tank mix with many common insecticides, fungicides, nutritionals and adjuvants has been found to be acceptable. See crop tables in this label for specific information on when using EXIREL insect control in tank mixes on those crops. Some materials including oils, surfactants, adjuvants, nutritionals and pesticide formulations when applied individually, sequentially, or in tank mixtures may solubilize the plant cuticle, facilitate penetration into plant tissue, and increase the potential for crop injury.

Applying EXIREL insect control with any product that produces adverse crop response in a tank mixture, specifically including, but not limited to, those listed in the individual crop tables, may also cause adverse crop response when applied in a short time sequence (i.e., seven days apart or less between applications) before or after EXIREL insect control. Such uses should be tested as described below before broad application is made.

Crop varieties can differ in their responsiveness to tank mixtures, and environmental conditions can have an influence on product performance and crop response. It is not possible to test EXIREL insect control alone or with all possible tank mix combinations and sequences on all crops and varieties under all environmental conditions. When considering the use of a tank mixture on a labeled crop without prior experience, or which is not specifically described on EXIREL insect control product labeling or in other FMC product use instruction, or when applying any product known to have caused adverse crop response when used in tank mix with EXIREL insect control in close sequence with EXIREL insect control, it is important to check crop safety first. To test for crop safety, prepare a small volume of the intended tank mixture or sequence, apply it to an area of the target crop as directed by both this and the tank mix partner product labels, and observe the treated crop to ensure that a phytotoxic response does not occur.

Use of EXIREL insect control in any tank mixture or sequence of applications that is not specifically described on EXIREL insect control product labeling or in other FMC product use instructions, could potentially result in crop injury. Follow the precautions on this label and on the label for any other product to be used in tank mixtures or in sequential applications before making such applications to your crops. Follow the most restrictive label. FMC will not be responsible for any crop injury arising from the use of a tank mixture or sequence of applications that is not specifically described on EXIREL insect control product labeling or in other FMC product use instruction.

Tank Mixing Sequence -Add different formulation types in the sequence indicated below*. Allow time for complete mixing and dispersion after addition of each product.

- 1. Water soluble bag (WSB)
- 2. Water soluble granules (SG)
- 3. Water dispersible granules (WG, XP, DF)
- 4. Wettable powders (WP)
- 5. Water based suspension concentrates (SC)
- 6. Water soluble concentrates (SL)
- 7. EXIREL insect control and other suspoemulsions (SE)
- 8. Oil based suspension concentrates (OD)
- 9. Emulsifiable concentrates (EC)
- 10. Surfactants, oils adjuvants
- 11. Soluble fertilizers
- 12. Drift retardants
- * Unless otherwise specified by manufacturer directions for use or by local experience.

CHEMIGATION - Overhead Sprinkler - Cranberries, Potatoes and Bulb Vegetables

The following types of irrigation equipment may be used for chemigation applications to cranberries, potatoes and bulb vegetables: overhead sprinkler irrigation systems.

Apply EXIREL insect control in sufficient water and of sufficient duration to ensure the specified rate is applied evenly to the entire treated area. Inject EXIREL insect control downstream from any water filtration system.

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

See "Required System Safety Devices For All Chemigation Systems" at the end of the Chemigation section.

APPLICATION INSTRUCTIONS FOR CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS – CRANBERRIES, POTATOES AND BULB VEGETABLES

Types of Chemigation Systems: EXIREL insect control may be applied to cranberries, potatoes and bulb vegetables through overhead sprinkler irrigation systems, including the following; center pivot, end tow, hand move, lateral move, side roll, solid set and wheel line. The irrigation system used must provide uniform water distribution.

Directions for Chemigation:

Preparation

A pesticide tank is recommended for the application of EXIREL insect control in chemigation systems.

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. With the mix tank 1/4 to 1/2 full with water and the agitator running, measure the required amount of EXIREL insect control and add it to the tank. The highest labeled rate for the specified pest may be necessary when making overhead chemigation applications. Then add additional water to bring your total pesticide mixture up to the desired volume for your application. Note: Always add EXIREL insect control to water, never put EXIREL insect control into a dry tank or other mixing equipment without first adding water. See "Tank Mixing Sequence" section for tank mixing sequence. Continue to agitate the mixture throughout the application process. Use mechanical or hydraulic agitation, do not use air agitation.

Injection Into Chemigation Systems

Inject the proper amount of EXIREL insect control into the irrigation water flow using a positive displacement injection pump or a Venturi injector. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water. For continuously moving systems, inject the solution containing EXIREL insect control into the irrigation water line continually and uniformly throughout the irrigation cycle. The recommended maximum water volume for the overhead chemigation application is 0.2 acre inches of water. For overhead sprinkler systems that are stationary, add the solution containing EXIREL insect control to the irrigation water line and apply in a maximum water volume of 0.25 acre inches of water.

Uniform Water Distribution

The irrigation system used for application of EXIREL insect control must provide for uniform distribution of EXIREL insect control treated water. Non-uniform distribution can result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the irrigation system is calibrated to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

Equipment Calibration

Calibrate the irrigation system and injector before applying EXIREL insect control. Calibrate the injection pump while the system is running using the expected irrigation rate. If you have questions about calibration, you should contact your state extension service specialists, equipment manufacturer or other experts.

Monitoring of Chemigation Applications

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for applicators and other handlers when making adjustments or repairs on the chemigation system when EXIREL insect control is in the irrigation water.

Operation

Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injection system according to the directions above. This procedure is necessary to deliver the desired rate per acre in a uniform manner. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

• End guns must be turned off during the application, if they irrigate nontarget areas or if they do not provide uniform application and coverage.

- The nozzles in the immediate area of wells, control panels, chemical supply tanks and system safety devices are to be plugged to prevent contamination of these areas.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Do not apply when system connections or fittings leak or when nozzles do not provide uniform distribution.
- Do not allow irrigation water to collect or run-off during chemigation.

Cleaning the System

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

REQUIRED SYSTEM SAFETY DEVICES FOR ALL CHEMIGATION SYSTEMS

- 1. The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6. Systems must use a metering device, such as a positive displacement pump or a Venturi injector, that provides uniform injection of the product, is effectively designed and constructed of materials compatible with the product, and is capable of being fitted with a system interlock.
- 7. Chemigation systems connected to public water systems must contain a functional, reduced- pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

SPRAY TANK CLEANOUT

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water.

Clean all other associated equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation.

Dispose of waste rinse water in accordance with local regulations.

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

IMPORTANCE OF DROPLET SIZE

The most effective drift management strategy is to apply the largest droplets which are consistent with pest control objectives. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly or under unfavorable environmental conditions.

A droplet size classification system describes the range of droplet sizes produced by spray nozzles. The American Society of Agricultural and Biological Engineers (ASABE) provide a Standard that describes droplet size spectrum categories defined by a number of reference nozzles (fine, coarse, etc.). Droplet spectra resulting from the use of a specific nozzle may also be described in terms of volume mean diameter (VMD). Coarser droplet size spectra have larger VMD's and lower drift potential.

CONTROLLING DROPLET SIZE - GROUND APPLICATION

• Nozzle Type - Select a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. The use of low-drift nozzles will reduce drift potential.

- Pressure The lowest spray pressures recommended for the nozzle produce the largest droplets. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, using a higher-capacity nozzle instead of increasing pressure results in the coarsest droplet spectrum.
- Flow Rate/Orifice Size Using the highest flow rate nozzles (largest orifice) that are consistent with pest control objectives reduces the potential for spray drift. Nozzles with higher rated flows produce coarser droplet spectra.

CONTROLLING DROPLET SIZE - AIRCRAFT

- Nozzle Type Solid stream, or other low drift nozzles produce the coarsest droplet spectra.
- Number of Nozzles Using the minimum number of nozzles with the highest flow rate that provide uniform coverage will produce a coarser droplet spectrum
- Nozzle Orientation Orienting nozzles in a manner that minimizes the effects of air shear will produce the coarsest droplet spectra. For some nozzles such as solid stream, pointing the nozzles straight back parallel to the airstream will produce a coarser droplet spectrum than other orientations.
- Pressure Selecting the pressure that produces the coarsest droplet spectrum for a particular nozzle and airspeed reduces spray drift potential. For some nozzle types such as solid streams, lower pressures can produce finer droplet spectra and increase drift potential

BOOM LENGTH (AIRCRAFT), AND APPLICATION HEIGHT

- Boom Length (aircraft) Using shorter booms decreases drift potential. Boom lengths are expressed as a percentage of an aircraft's wingspan or a helicopter's rotor blade diameter. Shorter boom length and proper positioning can minimize drift caused by wingtip or rotor vortices.
- Application Height (aircraft) Applications made at the lowest height that are consistent with pest control objectives and the safe operation of the aircraft will reduce the potential for spray drift.
- Application Height (ground) Applications made at the lowest height consistent with pest control objectives, and that allow the applicator to keep the boom level with the application site and minimize bounce, will reduce the exposure of spray droplets to evaporation and wind, and reduce spray drift potential.

WIND

Drift potential is lowest when applications are made in light to gentle sustained winds (2-10 mph), which are blowing in a constant direction. Many factors, including droplet size and equipment type also determine drift potential at any given wind speed. AVOID GUSTY OR WINDLESS CONDITIONS.

Local terrain can also influence wind patterns. Every applicator is expected to be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

Setting up equipment to produce larger droplets to compensate for droplet evaporation can reduce spray drift potential. Droplet evaporation is most severe when conditions are both hot and dry.

SURFACE TEMPERATURE INVERSIONS

Drift potential is high during a surface temperature inversion. Surface inversions restrict vertical air mixing, which may cause small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Surface inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Mist or fog may indicate the presence of an inversion in humid areas. Inversions may also be identified by producing smoke and observing its behavior. Smoke that remains close to the ground, or moves laterally in a concentrated cloud under low wind conditions indicates a surface inversion. Smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are minimizing drift potential, and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, that it is configured properly, and that drift potential has been minimized.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Read the specific crop use and application equipment instructions to determine if an air assisted field crop sprayer can be used.

SENSITIVE AREAS

Making applications when there is a sustained wind moving away from adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is an effective way to minimize the effect of spray drift.

DRIFT CONTROL ADDITIVES

Using product compatible drift control additives can reduce drift potential. When a drift control additive is used, read and carefully observe cautionary statements and all other information on the additive's label. If using an additive that increases viscosity, ensure that the nozzles and other application equipment will function properly with a viscous spray solution. Preferred drift control additives have been certified by the Council of Producers & Distributors of Agrotechnology.

CROP ROTATION

Crops on this label and the following crops or crop groups may be planted immediately following the last application of EXIREL insect control: Brassica Leafy Greens (Crop Subgroup 4-16B) and Brassica Head and Stem Vegetables (Crop Group 5-16); Bulb Vegetables (Crop Group 3-07); Cotton; Cucurbit Vegetables (Crop Group 9); Fruiting Vegetables (Crop Group 8-10); Leafy Greens (Crop Subgroup 4-16A) and Leaf Petiole Vegetables (Crop Subgroup 22B); Celtuce; Florence Fennel; Leaves of Root and Tuber Vegetables (Crop Group 2); Legume Vegetables (Crop Groups 6 and 7); Low Growing Berries (Berry and Fruit Crop Subgroup 13-07H); Oilseeds (Crop Group 20); Peanuts; Soybeans; Root and Tuber Vegetables (Crop Subgroups 1B and 1C); Tobacco.

The following crops or crop groups may be planted 30 days following the last application of EXIREL insect control: Cereal Grains (Crop Group 15); Forage, Fodder and Straw of Cereal Grains (Crop Group 16); Grass Forage, Fodder and Hay (Crop Group 17); Nongrass Animal Feeds (forage, fodder, straw and hay) (Crop Group 18); Sugar beets.

There is no plant back restriction for conversion of a treated field to, or for making a new or replacement planting into established orchards or fields of Bushberries (Crop Subgroup 13-07B); Caneberry Subgroup (Crop Subgroup 13-07A); Coffee; Citrus (Crop Group 10-10); Pome Fruits (Crop Group 11-10); Stone Fruits (Crop Group 12); Low Growing Berries (Crop Subgroup 13-07G); or Tree Nuts (Crop Group 14-12).

All other crops cannot be planted until 12 months after the last application of EXIREL insect control.

Directions for Use for Vegetable and Row Crops

			EXIREL insect control RATE		DIVI	REI
Сгор	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Brassica Leafy Greens (Crop Subgroup 4- 16B) and Brassica Head and Stem	Foliar*	Beet armyworm Corn earworm Diamondback moth† Fall armyworm Imported cabbageworm Western yellowstriped armyworm	0.045 - 0.088	7 - 13.5	1	12
Vegetables		Cabbage looper	0.065 - 0.11	10 - 17		
(Crop Group 5-16) including Arugula; broccoli, Chinese; broccoli raab; cabbage, abyssinian; cabbage, Chinese, bok choy; cabbage, seakale; collards;		Cabbage aphid False cabbage aphid Flea beetle Green peach aphid Leafminer (<i>Liriomyza</i> spp.) Thrips (foliage feeding only)§ Turnip aphids Whitefly Swede midge Cabbage Seedpod Weevil Grasshoppers	0.088 - 0.133	13.5 - 20.5		
cress, upland; hanover salad; kale; maca, leaves; mizuna; mustard greens; radish, leaves; rape greens; rocket, wild; shepherd's purse; turnip greens; watercress; Broccoli (Brassica oleracea L. var. italica Plenck); Brussels sprouts (Brassica oleracea L. var. capitata (DC.) Zenker); Cabbage (Brassica oleracea L. var. capitata L.); Cabbage, Chinese, napa (Brassica rapa L. subsp. pekinensis (Lour.) Hanelt); Cauliflower (Brassica oleracea L. var. capitata L.); and cultivars, varieties, and hybrids of these commodities. Kohlrabi	products per calendar yea *- For best performance u § - Suppression only. Us with products with differ low. If populations are ab EXIREL insect control. † - Diamondback moth Group 28 insecticides) m the next "treatment wind (different IRAC Group N applications of EXIREL i of EXIREL insect control than 6 total applications of control of diamondback m For applications made to to application and water n application.	ore than 0.4 lb ai/A of CYAZYPY or whether applications are made to use an effective adjuvant. See "Use as part of an effective thrips content modes of action. Begin making ove threshold, use an effective through the content modes of action. Begin making over threshold, use an effective through the content with the content and the c	o the soil or foliarly. I of Adjuvants" sect trol program. Rotate applications to thrips knockdown products the section of the	ion. e ps when populations are duct before applying ct control (or other . Application(s) during ent mode of action re making any additional apply less than 7 fl oz ol. Do not make more s per calendar year for r at least 24 hours prior		

			EXIREL inse	ct control RATE	PHI (pre-harvest	REI (re-entry
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	interval) (days)	interval) (hours)
Bulb Vegetables, (Crop	Foliar	Leafminer (<i>Liriomyza</i> spp.)* Thrips (foliage feeding only)* §	0.088 -0.133	13.5 - 20.5	1	12
Group 3-07) Chive, fresh leaves; Chive, Chinese, fresh leaves; Daylilly, bulb (edible); Elegans hosta (edible); Fritillaria, leaves (edible); Garlic, bulb; Garlic, great headed, bulb; Garlic, serpent, bulb; Garlic, serpent, bulb; Garlic, serpent, bulb; Gorlic, serpent, bulb; Onion, Beltsville bunching; Onion, Beltsville bunching; Onion, Chinese, bulb; Onion, fresh; Onion, green; Onion, macrostem; Onion, pearl; Onion, potato, bulb; Onion, tree,tops; Onion, Welsh, tops; Shallot, bulb; Shallot, fresh leaves	Do not apply a total of mor products per calendar year § - Suppression only. For control program. Rotate with thrips when populations ar knockdown product before * - For best performance, u EXIREL insect control ma	rval between treatments is 5 days. re than 0.4 lb ai/A of CYAZYPY whether applications are made to best results, use the highest rate lith products with different modes to low (1-3 thrips per plant). If poper applying EXIREL insect control use with an effective adjuvant. Sety be applied by overhead chemig	R active or cyantranili the soil or foliarly. isted. Use as part of at of action. Begin maki outliness are higher, u e "Use of Adjuvants" s	n effective thrips ing applications to se an effective thrips section.		

			EXIREL insect	control RATE		REI
Сгор	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Carrot, radish; Root Vegetables,	Foliar	Armyworms Loopers Cutworms	0.065- 0.088	10 - 20.5	1	12
except Sugar Beet (Crop Group 1B); Beet, garden; burdock, edible; carrot; celeriac; chervil, turnip- rooted; chicory; ginseng; horseradish; parsley, turnip- rooted; parsnip radish; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret; turnip	Minimum application inter *- For best performance, u §-Suppression only. For be- program. Rotate with prod Do not apply a total of me- products per calendar year The crop safety of EXIRE, group. When using EXIRE	Cotton aphid* Green peach aphid* Flea beetle Beet armyworms Whiteflies Thrips (foliage feeding only)§* Carrot weevil Cabbage seedpod weevil rval between treatments is 5 days. se with an effective adjuvant. See est results, use the highest rate list ucts with different modes of action than 0.4 lb ai/A of CYAZYPY whether applications are made to L insect control in tank mixture he L insect control in tank mixtures, y before using in large areas. See	"Use of Adjuvants" sed. Use as part of an on. R active or cyantranil the soil or foliarly. as not been evaluated it is recommended the	effective thrips control liprole containing on this crop or crop lat a small area be		

			EXIREL insect control RATE			REI
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Cucurbit Vegetables (Crop Group 9) including	Foliar	Beet armyworm Melonworm Pickleworm Western yellowstriped armyworm	0.045 - 0.088	7 - 13.5	1	12
Chayote (fruit),	,	Cabbage looper	0.065 - 0.11	10 - 17	1	
Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin,		Cotton/melon aphid* Flea beetle§ Green peach aphid* Leafminer (<i>Liriomyza</i> spp.)* Thrips (foliage feeding only)§ Whitefly*	0.088 - 0.133	13.5 - 20.5		
Edible gourd		Striped cucumber beetle	0.133	20.5	1	
hechima, Chinese okra), Morordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (Includes true cantaloupe, casaba, crenshaw melon, golden pershaw melon, golden pershaw melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon and snake melon), Pumpkin, Summer squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter squash (includes butternut squash, calabaza, hubbard squash, spaghetti squash), watermelon	*- For best performance, u § - Suppression only. Use products with different me low. For thrips, if populati before applying EXIREL i Cucurbit Yellow Stuntin whiteflies which may vect oz/A applied foliarly soon expression of cucurbit yell Precautions when using E EXIREL insect control wifungicides (for example C Luna® Sensation fungicid may result in adverse crop information.	whether applications are made to se with an effective adjuvant. See as part of an effective control prodes of action. Begin making applions are above threshold, use an ensect control. g Disorder Virus Suppression: for the cucurbit yellow stunting diafter emergence or transplanting ow stunting disorder virus in cucu XIREL insect control in tank mix th some products formulated as eabrio® fungicide and Quadris® for (trifloxystrobin + fluopyram) are response. See "Tank Mixtures are	e "Use of Adjuvants" ogram. Rotate with lications when popula ffective thrips knock. Use of EXIREL insersional experience will help suppress are urbits. es in cucurbit vegetal mulsifiable concentrationgicide), copper band Venom® insectici	ations are down product ct control to control of 13.5 - 20.5 fl nd slow the bles: tank mixes of ates (EC), strobilurin sed fungicides, de (dinotefuran)		

			EXIREL insect	control RATE	DIII	REI
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Commercial greenhouse	Foliar	Cabbage looper Armyworms	0.065 - 0.133	10.0- 20.5	0	12
grown cucumbers		Cotton aphid* Green peach aphid* Thrips (foliage feeding only)§* Whiteflies*	0.088 - 0.133	13.5 - 20.5		
	Minimum application inte Do not apply a total of mo products per calendar year For use only on cucumber facilities. Do not treat plar or greenhouses by comme *- For best performance, v "§ - Suppression only. U modes of action. For thrip are above threshold, use at Thorough coverage is esse plants and density of foliage. Use the Precautions when using E insect control with some p (for example Cabrio fungi fungicide (trifloxystrobin response. See "Tank Mixt					
Fruiting Vegetable (Crop Group 8- 10) African eggplant Bush tomato; Bell pepper; Cocona;	Foliar t	Beet Armyworm Colorado potato beetle European corn borer Fall armyworm Southern armyworm Tomato fruitworm Tomato pinworm Tomato hornworm Western yellowstriped	0.045 - 0.088	7 - 13.5	1	12
Currant tomato; Eggplant;		armyworm Loopers	0.065 - 0.11	10 - 17		
Garden huckleberry; Goji berry; Groundcherry; Martynia; Naranjilla; Okra; Pea eggplant; Penino:		Green peach aphid* Leafminer (Liriomyza spp.)* Pepper weevil\(\xi\) Potato aphid* Thrips (foliage feeding only)\(\xi\) Tomato psyllid Whitefly*	0.088 - 0.133	13.5 - 20.5		
Pea eggplant; Pepino; Pepper, bell; Pepper, nonbell; Roselle; Scarlet eggplant; Sunberry; Tomatillo; Tomato; Tree tomato	Minimum application inte Do not apply a total of mo products per calendar year * - For best performance, * * - Suppression only. Use with different modes of ac are low. If populations are before applying EXIREL Tomato Spotted Wilt Virus control to manage thrips we vector the tomato yellow lemergence or transplanting yellow leaf curl virus in fru Precautions when using Econtrol in tank mix with aused in tank mix with EXIEXIREL insect control wifungicide), chlorothalonil and DuPont TM Tanos® fur response. Precautions when using Econtrol with strobilurin fur adverse crop response. The crop safety of EXIRE this crop group. When using area be tested to demonstr See "Tank Mixtures and Compared to the strong safety of EXIRE this crop group. When using area be tested to demonstr See "Tank Mixtures and Compared to the strong safety of EXIRE this crop group.					

			EXIREL insect	control RATE	DIII	REI
Crop	Application Method	Target Pest	Lb ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Commercial Greenhouse Grown (Crops	Foliar	Thrips (foliage feeding only)§ Whitefly*	0.088 - 0.133	13.5 - 20.5	1	12
Grown to Harvest in Greenhouses) Eggplant, Pepper (including bell and non-bell pepper) Tomato	Do not apply a total of mor products per calendar year For use only on eggplant, greenhouse crop productinurseries, plant propagat plants being grown for tr. * - For best performance, u. § - Suppression only. Use modes of action. For thrips populations are above threst insect control. Thorough coverage is esser plants and density of foliag Precautions when using EX control in tank mix with ad used in tank mix with EXII EXIREL insect control wit fungicide), chlorothalonil band DuPont Tanos fungicic Precautions when using EX control with strobilurin fun adverse crop response. The crop safety of EXIREI using EXIREL insect control demonstrate safety before using EXIREL insect control dem	as an effective adjuvant. See "Us as part of an effective control pro, begin making applications to the shold, use an effective thrips known tial to achieve best results. Selecte. Use the higher rate on large place and the strobilurin fungicides (for examples and formulations) and the strobilurin fungicides (for example Cabrio fungicides) and the strobilurin fungicides (for example Cabrio fungicides) and the strobilurin tank mixtures, it is recommendations and the strobiluring the stro	R active or cyantranilist the soil or foliarly. g grown to harvest in second for transplants of transplants of transplants. e of Adjuvants" section of transplants of transplants of transplants of transplants of transplants or dense foliage. The second for transplants or dense foliage.	n commercial nting. Not for use in nt producers on on." oducts with different are low. If e applying EXIREL opriate for the size of ions of EXIREL insect for other products Cank mixes of and Quadris her Stik fungicide), erse crop response. ixes of EXIREL insect gicide) may result in on eggplant. When		

	i e	1	EVIDEI inse	ect control RATE		
			EXIRELIIIS		PHI	REI (re-entry
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	(pre-harvest interval) (days)	interval) (hours)
Leafy Greens (Crop Subgroup 4- 16A) and Leaf Petiole Vegetables (Crop Subgroup 22B) including Amaranth, Chinese; amaranth, leafy; aster, Indian; blackjack; cat's whiskers; cham-chwi;	Foliar*	Beet armyworm Corn earworm Diamondback moth† Fall armyworm Western yellowstriped armyworm	0.045 - 0.088 0.065 - 0.11	7 - 13.5 10 - 17	1	12
chervil, fresh		Cabbage aphid	0.088 - 0.133	13.5 - 20.5		
leaves; chipilin;		False cabbage aphid				
chrysanthe-		Flea beetle				
mum, garland; cilantro, fresh		Green peach aphid Leafminer (<i>Liriomyza</i> spp.)				
leaves;		Thrips (foliage feeding only)§				
corn salad; cosmos;		Turnip aphids				
dandelion,		Whitefly Grasshoppers				
leaves; dang-gwi,	Minimum application inte	erval between treatments is 5 days				
leaves; dillweed;	Do not apply a total of mo	ore than 0.4 lb ai/A of CYAZYPY	R active or cyantra			
dock;		r whether applications are made to resistance management: Do not a				
dol-nam-mul; ebolo;		ore than twice within any 30 day "				
endive;	the next "treatment windo	w" must be with an effective prod	duct(s) with a differ	ent mode of action		
escarole; fameflower;		umber) for at least a 30 day "treat nsect control (or other Group 28 is				
feather		er application per acre for diamond				
cockscomb; Good King		IRE insect control or any Group 2	28 insecticides per c	alendar year for control		
Henry;	of diamondback moth at t	he same farm location. use with an effective adjuvant. Sec	a "Lice of Adjuvents	all section		
huauzontle; jute, leaves;		e as part of an effective thrips con				
lettuce, bitter; lettuce, head;	different modes of action.	Begin making applications to thr	ips when population	ns are low. If populations		
lettuce, leaf;	7	n effective thrips knockdown pro XIREL insect control in tank mix	11 2 4	9		
orach; parsley, fresh		control in spinach. Tank mixes of				
leaves;		e concentrates (EC), strobilurin fu				
plantain, buckhorn;		orothalonil based fungicide formudverse crop response. Precautions				
primrose,		xes of EXIREL insect control with				
English; purslane,	adjuvant may result in adv					
garden;		EL insect control in tank mixture h ng EXIREL insect control in tank				
purslane, winter;		rate safety before using in large ar		mmenaca mat a Silian		
radicchio; spinach;		Crop Safety" section for more info				
spinach,						
Malabar; spinach, New						
Zealand;						
spinach, tanier; Swiss chard;						
violet,						
Chinese, leaves;						
Cardoon;						
celery; celery,						
Chinese;						
fuki; rhubarb;						
udo; zuiki;						
cultivars,						
varieties, and hybrids of						
these						
commodities. Celtuce;						
and Florence						
Fennel			10			

			ect control RATE			
Crop	Application Method	Target Pest	Lb ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	REI (re-entry interval) (hours)
Leaves of root and tuber vegetables (Crop Group 2) Beet, garden; beet, sugar; burdock.	Foliar	Beet armyworm Flea beetles Cotton aphid* Green peach aphid* Whiteflies Thrips (foliage feeding only)§* Carrot weevil Cabbage seedpod weevil	0.088 - 0.133	13.5 - 20.5	1	12
edible; carrot; cassava, bitter and sweet;		Armyworms Loopers Cutworms	0.065-0.133	10 - 20.5		
celeriac; chervil, turnip-rooted; chicory; dasheen (taro); parsnip; radish, oriental (daikon); rutabaga; salsify, black; sweet potato; tanier; turnip; yam, true	Minimum application inter Do not apply a total of mor products per calendar year § - Suppression only. For t populations are above three insect control. Thorough of The crop safety of EXIREI group. When using EXIREL insec	se with an effective adjuvant. See val between treatments is 5 days. re than 0.4 lb ai/A of CYAZYPY whether applications are made to hrips, begin making applications shold, use an effective thrips knowerage is essential to achieve bear to enter the control in tank mixture has to control in tank mixtures, it is resusing in large areas. See "Tank M	R active or cyantral the soil or foliarly to thrips when popu- kdown product be- st results. as not been evaluat commended that a	niliprole containing ulations are low. If fore applying EXIREL ed on this crop or crop small area be tested to		

			EXIREL inse	EXIREL insect control RATE		DEI
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	REI (re-entry interval) (hours)
Legume vegetables, succulent or	Foliar	Corn earworm European corn borer Leafminers	0.065 - 0.133	10 - 20.5	1(succulent) 7 (dried)	12
dried (Crop Subgroups		Potato leafhopper§* Thrips (foliage feeding only)§* Whiteflies*	0.088 - 0.133	13.5 - 20.5		
6A, 6B, 6C) Bean (Lupinus) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); bean (Phaseolus) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); bean (Vigna) (includes adzuki bean, asparagus bean blackeyed pea, catjang, Chinese longbean, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); broad bean (fava); chickpea (garbanzo); guar; jackbean; lentil; pea (Pisum) (includes dwarf pea, edible-podded pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea); pigeon pea; sword bean	section. Minimum applica Do not apply a total of mo products per calendar year Applications of EXIREL i result in adverse crop resp crop response to EXIREL The crop safety of EXIRE When using EXIREL inse recommended that a small Mixtures and Crop Safety	For best performance, use with an tion interval between treatments is re than 0.4 lb ai/A of CYAZYPYD whether applications are made to insect control to certain species of onse. Affected plants outgrow the insect control cannot be accepted L insect control in tank mixture heat control alone or in tank mixture area be tested to demonstrate safe" section for more information.	s 5 days. R active or cyantrar the soil or foliarly legume vegetables effects in most cas , do not apply it to as not been evaluat es in legume vegeta	niliprole containing . in this crop group may ses. If the risk of adverse legume vegetables. ed on this crop group. bles, it is		

			EXIREL insec	et control RATE		DEI		
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	REI (re-entry interval) (hours)		
Tuberous and	Foliar	Colorado potato beetle†	0.033 - 0.088	5 - 13.5	7	12		
Corm Vegetables (Crop Subgroup 1C)		Beet armyworm European corn borer Potato tuberworm*†† Yellowstriped armyworm	0.045 - 0.088	7 - 13.5				
including		Cabbage looper	0.065 - 0.11	10 - 17				
Arracacha; Arrowroot; Artichoke, Chinese; Artichoke,		Potato flea beetle* § Green peach aphid* Potato aphid* § Potato psyllid	0.088 - 0.133	13.5 - 20.5				
Jerusalem;	Minimum application inte	rval between treatments is 5 days		•				
Canna, edible; Cassava, bitter	Do not apply a total of mo	ore than 0.4 lb ai/A of CYAZYPY	R active or cyantran	iliprole containing				
and sweet;	1 1	r; this is the total of seed piece tre	atment (potato), soil	treatment, and foliar				
Chayote (root); Chufa;	treatment. *- For best performance u	se with an effective adjuvant. See	"Use of Adiuvants"	section				
Dasheen (taro); Ginger;		e as part of an effective control pr						
Leren;	different modes of action.	•		•				
Potato; Sweet potato;		le resistance management - Do						
Tanier;		ore than twice to a generation of C lication(s) to the next generation						
Turmeric: Yam bean;		a different mode of action (different						
Yam, true	day "treatment window" b							
	Group 28 insecticides). If							
		EXIREL insect control (or other 0 days after emergence. Application)						
		s must be with an effective production		•				
		RAC Group Number) for at least a						
		EL insect control (or other Group						
		EXIREL insect control may be a						
		Begin application when field sco arvae. Potato tuberworm often ha						
		nsect control may be needed base						
		th the same mode of action. It is i						
	_	arts to senesce. Use the higher rat						
		h. Failure to adequately control p						
		creases the risk of tuber damage. I control of larvae in the mid to lo						
	, , ,	gation or integrate chemigation a	1 1 2	,				
		with foliar sprays, add Methylated						
		olume (1% v/v). For chemigation						
	inches of water and add M Cranberries, Potatoes and chemigation.							
		nip Disease: Use of EXIREL inse	ect control to control	potato psyllid which				
	may vector zebra chip dis	ease at a rate of 13.5 to 20.5 fl. oz	./A applied starting					
	1 1	elp suppress the expression of the	1	·				
		XIREL insect control in tank mix						
		urin fungicides (for example Quae response. The crop safety of EX						
1								
	mixtures, it is recommend	not been evaluated on all other crops in this crop group. When using EXIREL insect control in tank mixtures, it is recommended that a small area be tested to demonstrate safety before using in large						
	areas.							
	See "Tank Mixtures and C	Crop Safety" section for more info	rmation.					

			EXIREL insect	control RATE		REI
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Cotton	Foliar	Beet armyworm Cotton bollworm† Fall armyworm Saltmarsh caterpillar Southern armyworm Tobacco budworm† Western yellowstriped armyworm	0.045 - 0.11	7 - 17	7	12
		Cabbage looper Soybean looper	0.065 - 0.11	10 - 17		
		Whitefly* Thrips (foliage feeding only)§	0.088 - 0.133	13.5 - 20.5		
	Do not apply a total of n products per calendar year * - For best performance, populations of whiteflies, use - Suppression only. Use different modes of action. are above threshold, use arthough - For Heliothine control of 0.065 - 0.11 lb air per account - 0.045 - 0.088 lb air per account - 0.0	rval between treatments is 7 days nore than 0.4 lb ai/A of CYAZ's whether applications are made to use with an effective adjuvant. Use the highest listed rate. The as part of an effective thrips of Begin making applications to the effective thrips knockdown production bollworm and/or cotton of the control	YPYR active or cyar of the soil or foliarly. See "Use of Adjuva control program. Rotaips when populations duct before applying loudworm) make the fuquent applications calling on pressure. on may result in crecrop response to E. has not been evaluates recommended that a	ants" section. For high are with products with are low. If populations EXIREL insect control. For application at rates in be at rates of the presponse. Affected EXIREL insect control and the control area is small area be tested to		

	EXIREL insect control RATE					REI
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Oil Seed Crops (Crop Group 20) including Borage; Calendula; Castor oil; Chinese tallowtree; Crambe; Cuphea; Echium; Euphorbia; Evening primrose; Flax seed; Gold of pleasure; Hare's ear mustard; Jojoba; Lesquerella; Lunaria; Meadowfoam; Milkweed; Mustard seed; Niger seed; Oil radish; Poppy seed; Rapeseed (including canola varieties); Rose hip; Safflower; Sesame; Stokes aster; Sunflower; Sweet rocket; Tallowwood; Tea oil plant; Vernonia	Minimum application inte Do not apply a total of n products per calendar yea application). * - For best performance, § - Suppression only. Use modes of action. The crop safety of EXIRE When using EXIREL inse	Bertha armyworm Diamondback moth Sunflower head moth Crucifer flea beetle Cabbage looper Sunflower seed weevil§ rval between treatments is 7 days nore than 0.4 lb ai/A of CYAZY r. This is the total from all appl use with an effective adjuvant. See e as part of an effective control pr EL insect control in tank mixture ext control in tank mixtures, it is using in large areas. See "Tank N	PYR active or cycication methods (see "Use of Adjuvan rogram. Rotate with has not been evalure commended that	seed treatment and foliar tts" section. h products with different tated on this crop group. a small area be tested to	7	12

			EXIREL insect control RATE			DEL
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	REI (re-entry interval) (hours)
Peanuts	Foliar	Corn earworm Fall armyworm Tobacco budworm	0.065 - 0.133	10 - 20.5	14	12
		Cutworms Soybean looper Lesser cornstalk borer Thrips (foliage feeding only)§**	0.088 - 0.133	13.5 - 20.5		
	§ - Suppression only. **- management program. Mi Do not apply a total of mo products per calendar yea Tomato Spotted Wilt Vi may vector the tomato spot cracking) will help suppre as part of a TSWV manag The crop safety of EXIRE using EXIREL insect con demonstrate safety before information.					
Soybeans	Foliar	Green cloverworm Soybean looper	0.065 - 0.133	10 - 20.5	7	12
		Velvetbean catterpillar				
		Lesser cornstalk borer Bean leaf beetle Japanese beetle Stink bug species Soybean aphid* Thrips (foliage feeding only) §*	0.088 - 0.133	13.5 – 20.5		
	§ - Suppression only. *- F section. Minimum applica Do not apply a total of mo products per calendar yea					
	The crop safety of EXIREL insect control in tank mixture has not been evaluated on this crop or crop group. When using EXIREL insect control in tank mixtures, it is recommended that a small area be tested to demonstrate safety before using in large areas. See "Tank Mixtures and Crop Safety" section for more information.					
Tobacco	Foliar	Tobacco budworm	0.065 - 0.133	10 - 20.5	7	12
		Tomato hornworm Tobacco hornworm Flea beetle	0.088 - 0.133	13.5 - 20.5		
	Minimum application interval between treatments is 5 days. Do not apply a total of more than 0.4 lb ai/A of CYAZYPYR active or cyantraniliprole containing products per calendar year whether applications are made to the soil or foliarly. The crop safety of EXIREL insect control in tank mixture has not been evaluated on tobacco. When using EXIREL insect control in tank mixtures, it is recommended that a small area be tested to demonstrate safety before using in large areas. See "Tank Mixtures and Crop Safety" section for more information.					

Directions for Use for Fruit Crops

			EXIREL insect	control RATE		DEI
Сгор	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	REI (re-entry interval) (hours)
Bushberries, (Crop	Foliar	Cherry fruitworm Cranberry fruitworm	0.065 - 0.088	10 - 13.5	3	12
Subgroup 13- 07B) Aronia berry; Blueberry, highbush;		Blueberry aphid Blueberry gall midge§ Blueberry maggot Spotted wing drosophila* Plum curculio* Citrus thrips*	0.088 - 0.133	13.5 - 20.5		
Blueberry, lowbush; Buffalo currant; Chilean guava; Cranberry, highbush; Currant, black; Currant, red; Elderberry; European barberry; Gooseberry; Honeysuckle, edible; Huckleberry; Juneberry (Saskatoonberry; Native currant; Salal; Sea buckthorn	volume appropriate for the Do not apply less than 30 water per acre. § - Suppression only. Use Rotate with products with applications when populat * - For best performance, instructions in this crop ta Precautions when using E insect control with Induce other products used in tan mixes of EXIREL insect c adverse crop response on DO NOT tank mix EXIRI safety has been tested. The crop safety of EXIRE this crop group. When usi area be tested to demonstr See "Tank Mixtures and Compared to the safety of	0 gallons of am. I midge section and other mixes of EXIREL ease the potential for crop response. Tank ed have not caused an o group unless crop on all other crops in mended that a small		- 10		
Caneberry subgroup (Crop Sub-	Foliar	Spotted wing drosophila Adult root weevils	0.088 – 0.133	13.5 – 20.5	1	12
group 13-07A) blackberry; loganberry; red and black raspberry; wild raspberry; cultivars and/or hybrids of these	Minimum application interval between treatments is 5 days. Do not apply a total of more than 0.4 lb ai/A of CYAZYPYR active or cyantraniliprole containing products per calendar year. Spray Volume: Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the size of plants and density of fruit and foliage. The crop safety of EXIREL insect control in tank mixture has not been evaluated on this crop or crop group. When using EXIREL insect control in tank mixtures, it is recommended that a small area be tested to demonstrate safety before using in large areas. See "Tank Mixtures and Crop Safety" section for more information.					
Coffee	Foliar	Coffee berry borer	0.133	20.5	5	12
	Do not apply a total of m products per calendar yea Time applications early is with coffee berry borer in Calibrate equipment to a The crop safety of EXIRE group. When using EXIRI tested to demonstrate safe	rerval between treatments is 14 da ore than 0.27 lb ai/A of CYAZYI ar. In the pest infestation when no monoposition A or B (prior to borer rechieve thorough spray coverage of L insect control in tank mixture be the control in tank mixtures be the control in tank mixtures be the control in tank mixtures be before using in large areas. Crop Safety" section for more information of the control in tank mixtures the contro	ore than 2% of the coffeeaching the endospern f the berry without rur has not been evaluated s, it is recommended the	ee berries are infested n/seed). noff. on this crop or crop		

		Target Pest	EXIREL insect con	ntrol RATE	PHI (pre-harvest interval) (days)	REI
Crop	Application Method		Lb. ai per acre	fluid ounces product per acre		(re-entry interval) (hours)
Crop Group 13-07H*, specifically Bearberry; bilberry;	Foliar	Cherry fruitworm Cranberry fruitworm Black headed fireworm Sparganothis fruitworm	0.065 – 0.133	10 – 20.5	14	12
bilberry; cloudberry; cranberry; muntries; partridge- berry; cultivars, varieties, and/or cultivars of these. (*Excluding strawberry, lowbush blueberry, and lignonberry)	Minimum application into Do not apply a total of more products per calendar year EXIREL insect control more products per calendar year applications made to to application and water an application. The crop safety of EXIRE group. When using EXIRE tested to demonstrate safet See "Tank Mixtures and Compared to the safet See".					
Citrus Fruit, (Crop Group 10-10) Australian desert lime; Australia finger-lime; Australia	Foliar*	Asian citrus psyllid Citrus thrips** Citrus leafminer Cotton aphid Diaprepes root weevil adults Orange dog caterpillar Citrus cutworm	0.088 - 0.133	13.5 - 20.5	1	12
Australia round lime; Brown River finger lime; Calamondin; Citron; Citron; Citrus hybrids; Grapefruit; Japanese summer grapefruit; Kumquat; Lemon; Lime; Mediterranean mandarin; Mount white lime; Orange, sour; Orange, sour; Orange, sweet; Pummelo; Russel River lime; Satsuma mandarin; Sweet lime; Tachibana orange; Tahiti lime; Tangelo; Tangerine (mandarin); Tangor; Trifoliate orange; Uniq fruit	Minimum application inte Do not apply a total of mo containing products per ca Spray Volume: Thorough volume appropriate for the Where higher spray volum specified rate range. For busing commercial airblast when using commercial airapplications for Asian citr spray solution per acre, us microns, apply when wind * - For best performance, us microns, apply when wind * - For fruit protection, a oz/A. Initial application s moderate to high pest presthrips insecticide may be ror scout treated fields 5-7 population. If early signs of Time applications to the marvae, before populations achieve the desired result of the stream of the sum					

	Application Method		EXIREL insect	IREL insect control RATE		REI
Crop		Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Strawberry	Foliar	Beet armyworm Corn earworm Soybean looper Whiteflies Spotted wing drosophila Thrips (foliage feeding only)§ * **	0.088 - 0.133	13.5 - 20.5	1	12
	Do not apply a total of mo products per calendar year § - Suppression only. * For best performance, u: **- Use in conjunction wi Not all varieties of strawb alone or in tank mixture, s	rval between treatments is 7 days ore than 0.4 lb ai/A of CYAZYPY whether applications are made to see with an effective adjuvant. See than effective thrips management erries have been tested for crop safee "Tank Mixtures and Crop Safe	R active or cyantranilip the soil or foliarly. "Use of Adjuvants" set program. Ifety with EXIREL insection for more in	ect control		
Pome Fruit, (Crop	Foliar	Codling moth† European apple sawfly	East of the Rockies: 0.055 - 0.11	East of the Rockies: 8.5 - 17	3	12
Group 11-10) Apple; Azarole; Crabapple; Loquat; Mayhaw; Medlar; Pear;		Green fruitworm Obliquebanded leafroller†† Redbanded leafroller Spotted teniform leafminer Western tentiform leafminer Tufted apple budmoth Variegated leafroller White apple leafhopper	West of the Rockies: 0.065 - 0.11	West of the Rockies: 10 - 17		
Pear, Asian;		Oriental fruit moth	0.065 - 0.11	10 - 17		
Quince; Quince, Chinese; Quince, Japanese; Tejocote		Apple maggot* § Pear psylla* § Plum curculio* Rosy apple aphid*††† Thrips* §	0.088 - 0.133	13.5 - 20.5		
	Spray Volume: Thorough for the size of trees or plan Do not apply less than 30 acre. * - For best performance, \$ - Suppression only. For program. Rotate with proceeding product before applying E † - Codling moth larvae Application timing: For ear provides 10-14 days of pregrowth. Use pheromone to the development of each grepeat applications on a 14 program involving ovicide rates and shortened retreat with other codling moth in effectiveness for each proceeding Moth Resistance insecticides) more than the generation "treatment win must be with an effective at least a 30 - 45 day "trea control (or other Group 28 ††- Obliquebanded leaft the first sign of active feed For summer generation, and after ingestion of treated fit may take several days to Obliquebanded Leafroll. Group 28 insecticides) to generations of obliqueban action (i.e. a product with †††Rosy apple aphid: Fo Precautions when using Einsect control with adjuvar response in pome fruits, si					

			EXIREL insec	EXIREL insect control RATE		REI
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Stone Fruit (Crop Group 12) including,	Foliar	Cherry fruit fly* Codling moth Omnivorous leafroller Tufted apple budmoth	0.065 - 0.11	10 - 17	3	12
Apricot; Cherry, sweet; Cherry, sour;		Obliquebanded leafroller Oriental fruit moth Peach twig borer†	0.065 - 0.133	10 - 20.5		
Nectarine; Peach; Plum; Plum, Chickasaw; Plum, Damson; Plum.		Spotted wing drosophila* Black cherry aphid Japanese beetle Plum curculio Thrips§	0.088 - 0.133	13.5 - 20.5		
Japanese; Plumcot; Prune (fresh)	Do not apply a total of me containing products per containing products apply within a single generation * - For best performance, other instructions on this * Spray Volume: Thorough volume appropriate for the Do not apply less than 30 of water per acre. \$ - Suppression only. For program. Rotate with propopulations are at or below product before applying E † - Peach Twig Borer: FEXIREL insect control; for an EPA registered dorman specific oil labels for precusing ground equipment the May spray" applications the before peak egg lay). High and/or large, dense foliage Precautions when using E insect control with some tof EXIREL insect control crop response on cherry locations.	lications of EXIREL insect contains of the target pest on a crop. use with an effective adjuvant. Stable for more information. In coverage is essential to achieve esize of trees or plants and dense gallons of water per acre by ground best results, use the highest rate ducts with a different mode of act with the stable to the stable for late dormant applications, use or late dormant applications, use the tilt of the stable for late dormant applications, use the tilt of the stable for late dormant applications, use the tilt of the stable for late dormant applications, use the tilt of the stable for late dormant applications and restrictions regarding achieve thorough uniform coverage of the summer generation, make ther rates in the labeled rate range.	YR active or cyantran rol or other Group 28 See "Use of Adjuvants to be best results. Select a sity of foliage. Found. For best results a listed. Use as part of ction. Begin application bove threshold, use an arrow are applications on use of oil, cong the use of oils. For leaving of all scaffolds applications at peak ne may be needed for he ixes in stone fruit: tan may cause adverse crust rates of 0.03 % v/v ox EXIREL insect cont	insecticides s" section and a spray apply 100-150 gallons an effective control ons when pest a effective knockdown se higher rates of ions may be made with sult manufacturers best performance, apply and limbs. For "April - noth flight (timed at or high infestations levels k mixes of EXIREL op response. Tank mixes or lower do not result in rol with any other type		

			EXIREL insect	EXIREL insect control RATE		REI
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Tree Nuts (Crop	Foliar*	Hickory shuckworm Pecan nut casebearer	0.055 - 0.11	8.5 - 17	5	12
Group 14-12) including African nut-tree;		Codling moth† Obliquebanded leafroller Oriental fruit moth Peach twig borer††	0.065 - 0.133	10 - 20.5		
almond; beechnut;		Navel orangeworm††† Walnut aphid	0.088 - 0.133	13.5 - 20.5		
Brazil nut; Brazilian pine; bunya; bur oak; butternut; Cajou nut; candlenut; cashew; chestnut; chinquapin; coconut; coquito nut; dika nut; ginkgo; Guiana chestnut; hazelnut (filbert); heartnut; hickory nut; Japanese horse-chestnut; macadamia nut; mongongo nut; monkey-pot; monkey-pot; monkey puzzle nut; Okari nut; pach palm nut; peach palm nut; peach palm nut; pistachio; Sapucaia nut; tropical almond; walnut, black; walnut, Englisl yellowhorn; cultivars, varieties, and/or hybrids of these	Do not apply a total of more containing products per cat Make no more than 3 appli within a single generation Spray Volume: Thorough volume appropriate for the Where higher spray volume than 30 gallons of water per *- For best performance uthan 30 gallons of water per *- For best performance uthan 30 gallons of water per *- For best performance uthan 30 gallons of water per *- For best performance uthan 30 gallons of water per *- For best performance uthan 30 gallons of water per *- For dormant application equipment than applications of the specific directions on the varieties of the specific directions on the specific directions of higher rates in the labeled precautions when using Expections when using Expections with oil adjuvants approducts used in tank mix of EXIREL insect control response. DO NOT tank mixed that the specific direction is the specific direction of the specific di	rval between treatments is 7 days. re than 0.4 lb ai/A of CYAZYPY lendar year. ications of EXIREL insect contro of the target pest on a crop. It is easily to achieve less are used, apply a higher rate in er acre by ground. For best results se with an effective adjuvant. See the insection of infestation reapply 14 days and to achieve less are used, apply a higher rate in er acre by ground. For best results se with an effective adjuvant. See the infestation reapply 14 days and to achieve thorough coverage exament to achieve thorough coverage exament in see of oil, consult manufacturer; use of oils in tree nut crops. For be tough uniform coverage of all scaf Make applications at late dormantions to the summer generation: Migher rates in the labeled rate rate.	R active or cyantranii I or other Group 28 in best results. Select a s y of foliage. In the specified rate rate is apply 100-150 gallo is "Use of Adjuvants" refore peak egg lay fo ys later as needed. Us is ded throughout the gro ay be added to the spi specific oil labels for est performance, appl folds and limbs. For it (just prior to bud but fake applications at p ange may be needed f g the "May spray" or an application at 1-2 Depending on level o attions may be needed ses in tree nuts: tank in the or increase the po tuse an adverse crop in the been observed to can y other type of adjuvents.	nsecticides spray nge. Do not apply less ons of water per acre. section. or targeted se higher rates and wing season. ray tank. precautions and y using ground spring application to eak) to early bloom. heak moth flight (timed for higher infestation "Hull split" application "Hull split ming; of pest infestation, use hixes of EXIREL insect tential for other response. Tank mixes use an adverse crop want unless crop safety		

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the

use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Refer to the Net Contents section of this product's labeling for the applicable "Refillable Container" or "Nonrefillable Container" designation.

Nonrefillable Rigid Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Rigid Plastic and Metal Containers (Capacity Greater Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

state and local authorities.

Nonrefillable Rigid Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

All Refillable Containers: Refillable container. Refilling Container: Refill this container with EXIREL insect control containing cyantraniliprole only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If damage is found, do not use container, contact FMC at the number below for

Check for leaks after refilling and before transporting. If leaks are found, do not reuse or transport container, contact FMC at the number below for instructions. Disposing of Container: Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Do not transport if container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact CHEMTREC (Transportation and Spills) at 1-800-424-9300, day or night.

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The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of FMC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and, to the extent consistent with applicable law, Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

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SUPPLEMENTAL LABELING



CYANTRANILIPROLE

GROUP

28 I

INSECTICIDE

WITH CYAZYPYR® active

EPA Reg. No. 279-9615 (REGISTRATION TRANSFERRED FROM EPA REG. NO. 352-859 ON MAY 25, 2018) This label expires on 12/01/2021

FOR FOLIAR APPLICATIONS TO BRASSICA (LEAFY, AND HEAD AND STEM), BULB, CUCURBIT, FRUITING, LEAFY GREEN, LEAF PETIOLE, LEGUME, ROOT AND TUBEROUS AND CORM VEGETABLES; COMMERCIALLY GROWN GREENHOUSE CUCUMBER, EGGPLANT, PEPPER AND TOMATO; COTTON, OIL SEED CROPS; STRAWBERRIES; BUSHBERRIES; CANEBERRIES; COFFEE; LOW GROWING BERRIES; PEANUTS; SOYBEANS; CITRUS, POME, AND STONE FRUITS; TREE NUTS; AND TOBACCO FOR PEST MANAGEMENT OF SUCKING AND CHEWING INSECTS THAT CAN VECTOR CERTAIN PLANT DISEASES, AIDING IN OPTIMIZATION OF THE CROP'S POTENTIAL.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

IMPORTANT

BEFORE USING EXIREL insect control, READ AND FOLLOW ALL APPLICABLE DIRECTIONS; RESTRICTIONS; AND PRECAUTIONS ON THE EPA-REGISTERED LABEL.

This supplemental label contains new or additional instructions for use of this product which does not appear on the package label. Follow the instructions carefully.

This label must be in the possession of the user at the time of pesticide application.

GENERAL INFORMATION

EXIREL insect control is a suspoemulsion (oil in water emulsion) that can be applied as a foliar spray on labeled crops to control listed insects.

EXIREL insect control is specially formulated for maximum performance by foliar applications to brassica (leafy, and head and stem), bulb, cucurbit, fruiting, leafy green, leaf petiole, legume, root and tuberous and corm vegetables; commercially grown greenhouse cucumber, eggplant, pepper and tomato; cotton, oil seed crops; strawberries; bushberries; caneberries; coffee; low growing berries; peanuts; soybeans; citrus, pome, and stone fruits; tree nuts; and tobacco for pest management of sucking and chewing insects that can vector certain plant diseases, aiding in optimization of the crop's potential.



ACCEPTED

11/13/2018

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 279-9615

INSECT RESISTANCE MANAGEMENT

EXIREL insect control contains the active ingredient cyantraniliprole and is a Group 28 insecticide based on the mode of action classification system of the International Insecticide Resistance Action Committee (IRAC). Insecticides with the same Group Number affect the same biological site of action on the target pest and when used repeatedly in the same treatment area, naturally-occurring resistant individuals may survive correctly applied insecticide treatments, reproduce, and become dominant.

To avoid or delay the development of insecticide resistance, a resistance management strategy should be established for the use area. This strategy may include incorporation of cultural and biological control practices, alternation to different mode of action insecticides on succeeding generations, and targeting the most susceptible life stage. Consult your local or state agricultural authorities and product manufacturer for more information about developing a resistance management strategy.

Unless directed otherwise in the specific crop/pest sections of this label, the best practices are to follow these guidelines to delay the development of insecticide resistance:

- Apply EXIREL insect control and other Group 28 insecticides within a single "treatment window" to minimize exposing multiple successive generations of a pest species to the same mode of action insecticides.
- A "treatment window" is defined as the period of insecticidal activity provided by one or more applications of products with the same mode of action.
- · A "treatment window", including residual control, should not exceed 30 days (the length of a typical pest generation).
- Within the Group 28 "treatment window", make no more than 2 applications of EXIREL insect control or other Group 28 insecticides.
- Following a Group 28 "treatment window", rotate to a "treatment window" of effective insecticides with a different mode of action (Group Number).
- The period between Group 28 "treatment windows" should be at least 30 days.
- The total exposure of all Group 28 products applied throughout the crop cycle (from seedling to harvest) should not exceed approximately 50% of the crop cycle or 50% of the total number of insecticide applications targeted at the same pest species.
- For short cycle crops (< 50 days), the duration of the crop cycle may be considered as the Group 28 "treatment window" as long as no Group 28 insecticides are used during the next crop cycle at the same farm location.
- Avoid using less than labeled rates of EXIREL insect control when applied alone or in tank mixtures.
- Target the most susceptible insect life stages whenever possible.
- Monitor insect populations for product effectiveness. If poor performance occurs and it cannot be attributed to improper
 application or extreme weather conditions, a resistant pest population may be present.

If resistance to EXIREL insect control develops in your area, EXIREL insect control or other products with a similar mode of action (Group 28) may not provide adequate control. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternate method of control for your area.

For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at http://www.irac-online.org.

Tank Mixtures and Crop Safety - EXIREL insect control is an oil in water emulsion. The crop safety of EXIREL insect control alone or in tank mix with many common insecticides, fungicides, nutritionals and adjuvants has been found to be acceptable. See crop tables in this label for specific information on when using EXIREL insect control in tank mixes on those crops. Some materials including oils, surfactants, adjuvants, nutritionals and pesticide formulations when applied individually, sequentially, or in tank mixtures may solubilize the plant cuticle, facilitate penetration into plant tissue, and increase the potential for crop injury.

Applying EXIREL insect control with any product that produces adverse crop response in a tank mixture, specifically including, but not limited to, those listed in the individual crop tables, may also cause adverse crop response when applied in a short time sequence (i.e., seven days apart or less between applications) before or after EXIREL insect control. Such uses should be tested as described below before broad application is made.

Crop varieties can differ in their responsiveness to tank mixtures, and environmental conditions can have an influence on product performance and crop response. It is not possible to test EXIREL insect control alone or with all possible tank mix combinations and sequences on all crops and varieties under all environmental conditions. When considering the use of a tank mixture on a labeled crop without prior experience, or which is not specifically described on EXIREL insect control product labeling or in other FMC product use instruction, or when applying any product known to have caused adverse crop response when used in tank mix with EXIREL insect control in close sequence with EXIREL insect control, it is important to check crop safety first. To test for crop safety, prepare a small volume of the intended tank mixture or sequence, apply it to an area of the target crop as directed by both this and the tank mix partner product labels, and observe the treated crop to ensure that a phytotoxic response does not occur.

Use of EXIREL insect control in any tank mixture or sequence of applications that is not specifically described on EXIREL insect control product labeling or in other FMC product use instructions, could potentially result in crop injury. Follow the precautions on this label and on the label for any other product to be used in tank mixtures or in sequential applications before making such applications to your crops. Follow the most restrictive label. FMC will not be responsible for any crop injury arising from the use of a tank mixture or sequence of applications that is not specifically described on EXIREL insect control product labeling or in other FMC product use instruction.

Directions for Use for Vegetable and Row Crops

			EXIREL inse	ct control RATE		REI
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Brassica Leafy Greens (Crop Subgroup 4- 16B) and Brassica Head and Stem	Foliar*	Beet armyworm Corn earworm Diamondback moth† Fall armyworm Imported cabbageworm Western yellowstriped armyworm	0.045 - 0.088	7 - 13.5	1	12
Vegetables		Cabbage looper	0.065 - 0.11	10 - 17		
(Crop Group 5-16) including Arugula; broccoli, Chinese; broccoli raab; cabbage, abyssinian; cabbage, Chinese, bok choy; cabbage, seakale; collards;		Cabbage aphid False cabbage aphid Flea beetle Green peach aphid Leafminer (<i>Liriomyza</i> spp.) Thrips (foliage feeding only)§ Turnip aphids Whitefly Swede midge Cabbage Seedpod Weevil Grasshoppers	0.088 - 0.133	13.5 - 20.5		
cress, upland; hanover salad; kale; maca, leaves; mizuna; mustard greens; radish, leaves; rape greens; rocket, wild; shepherd's purse; turnip greens; watercress; Broccoli (Brassica oleracea L. var. italica Plenck); Brussels sprouts (Brassica oleracea L. var. capitata (DC.) Zenker); Cabbage (Brassica oleracea L. var. capitata L.); Cabbage, Chinese, napa (Brassica rapa L. subsp. pekinensis (Lour.) Hanelt); Cauliflower (Brassica oleracea L. var. capitata L.); and cultivars, varieties, and hybrids of these commodities. Kohlrabi	products per calendar yea *- For best performance u § - Suppression only. Us with products with differ low. If populations are ab EXIREL insect control. † - Diamondback moth Group 28 insecticides) m the next "treatment wind (different IRAC Group N applications of EXIREL i of EXIREL insect control than 6 total applications of control of diamondback m For applications made to to application and water n application.	ore than 0.4 lb ai/A of CYAZYPY or whether applications are made to use an effective adjuvant. See "Use as part of an effective thrips content modes of action. Begin making ove threshold, use an effective through the content modes of action. Begin making over threshold, use an effective through the content with the content and the c	o the soil or foliarly. I of Adjuvants" sect trol program. Rotate applications to thrips knockdown products the section of the	ion. e ps when populations are duct before applying ct control (or other . Application(s) during ent mode of action re making any additional apply less than 7 fl oz ol. Do not make more s per calendar year for r at least 24 hours prior		

			EXIREL insect	control RATE		REI
Сгор	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Carrot, radish; Root Vegetables,	Foliar	Armyworms Loopers Cutworms	0.065- 0.088	10 - 20.5	1	12
except Sugar Beet (Crop Group 1B); Beet, garden; burdock, edible; carrot; celeriac; chervil, turnip- rooted; chicory; ginseng; horseradish; parsley, turnip- rooted; parsnip radish; radish, oriental; rutabaga; salsify; salsify, Spanish; skirret; turnip	Minimum application inte *- For best performance, u §-Suppression only. For be program. Rotate with prod Do not apply a total of me products per calendar year The crop safety of EXIRE group. When using EXIRE	Cotton aphid* Green peach aphid* Flea beetle Beet armyworms Whiteflies Thrips (foliage feeding only)§* Carrot weevil Cabbage seedpod weevil rval between treatments is 5 days. see with an effective adjuvant. See set results, use the highest rate list lucts with different modes of action or than 0.4 lb ai/A of CYAZYPY whether applications are made to L insect control in tank mixture he L insect control in tank mixtures, before using in large areas. See	"Use of Adjuvants" sed. Use as part of an on. R active or cyantranil the soil or foliarly, as not been evaluated it is recommended the	effective thrips control liprole containing on this crop or crop nat a small area be		

			EXIREL insect	t control RATE		REI
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Cucurbit Vegetables (Crop Group 9) including	Foliar	Beet armyworm Melonworm Pickleworm Western yellowstriped armyworm	0.045 - 0.088	7 - 13.5	1	12
Chayote (fruit)	,	Cabbage looper	0.065 - 0.11	10 - 17	1	
Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin,		Cotton/melon aphid* Flea beetle§ Green peach aphid* Leafminer (<i>Liriomyza</i> spp.)* Thrips (foliage feeding only)§ Whitefly*	0.088 - 0.133	13.5 - 20.5		
Edible gourd		Striped cucumber beetle	0.133	20.5	1	
(includes hyotan, cucuzza, hechima, Chinese okra), Morordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (Includes true cantaloupe, salba, mango melon, persian melon, persian melon, pineapple melon, Santa Claus melon and snake melon), Pumpkin, Summer squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter squash (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash), Watermelon	Do not apply a total of mo products per calendar year *- For best performance, u § - Suppression only. Use products with different mo low. For thrips, if populati before applying EXIREL i Cucurbit Yellow Stunting whiteflies which may vectoz/A applied foliarly soon expression of cucurbit yell Precautions when using EXIREL insect control wif fungicides (for example Ca Luna® Sensation fungicid may result in adverse crop information.	rval between treatments is 5 days, re than 0.4 lb ai/A of CYAZYPY whether applications are made to se with an effective adjuvant. See as part of an effective control prodes of action. Begin making applions are above threshold, use an einsect control. g Disorder Virus Suppression: For the cucurbit yellow stunting diafter emergence or transplanting ow stunting disorder virus in cuc XIREL insect control in tank mixth some products formulated as eabrio® fungicide and Quadris® for (trifloxystrobin + fluopyram) ar response. See "Tank Mixtures and the standard of the standa	R active or cyantranion the soil or foliarly. "Use of Adjuvants" ogram. Rotate with ications when popula ffective thrips knocked. Use of EXIREL insects sorder virus at a rate will help suppress an urbits. es in cucurbit vegetal mulsifiable concentration in concentration in concentration in concentration in the concentration is a concentration in the concentration in the concentration in the concentration in the concentration is a concentration in the concentra	section. ations are down product et control to control of 13.5 - 20.5 fl dd slow the bles: tank mixes of test (EC), strobilurin ted fungicides, de (dinotefuran)		

			EXIREL insect	control RATE		REI
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Commercial greenhouse	Foliar	Cabbage looper Armyworms	0.065 - 0.133	10.0- 20.5	0	12
grown cucumbers		Cotton aphid* Green peach aphid* Thrips (foliage feeding only)§* Whiteflies*	0.088 - 0.133	13.5 - 20.5		
	Do not apply a total of mo products per calendar year For use only on cucumber facilities. Do not treat plar or greenhouses by comme *- For best performance, u "\\$ - Suppression only. U modes of action. For thrip are above threshold, use at Thorough coverage is esseplants and density of foliage. Use the Precautions when using E insect control with some p (for example Cabrio fungifungicide (trifloxystrobin	rval between treatments is 5 days. The than 0.4 lb ai/A of CYAZYPY whether applications are made to plants being grown to harvest in the plants being grown to harvest in the grown for transplanting. Not for the plants grown for transplanting. Not for the plants grown for transplanting. Not for the plants grown for transplant producers on plants as an effective adjuvant. See "Us see as part of an effective control plants, begin making applications to the form that to achieve best results. Select this plants of the p	R active or cyantranilia the soil or foliarly. commercial greenhous or use in nurseries, plats being grown for trate of Adjuvants" sectio program. Rotate with prips when populations duct before applying E at a spray volume appropriate to the concentrates (EC), see in cucumbers: tank et concentrates (EC), see based fungicides, Lide (dinotefuran) may	se crop production int propagation houses, insplanting. in." roducts with different are low. If populations XIREL insect control. incorpriate for the size of mixes of EXIREL trobilurin fungicides inna Sensation		
Fruiting	response. See "Tank Mixt Foliar	ures and Crop Safety" section for Beet Armyworm	more information. 0.045 - 0.088	7 - 13.5	1	12
Vegetable (Crop Group 8- 10) African eggplant Bush tomato; Bell pepper; Cocona; Currant tomato; Eggplant;		Colorado potato beetle European corn borer Fall armyworm Southern armyworm Tomato fruitworm Tomato pinworm Tomato hornworm Western yellowstriped armyworm				
Garden		Loopers	0.065 - 0.11	10 - 17		
huckleberry; Goji berry; Groundcherry; Martynia; Naranjilla; Okra; Pea eggplant; Pepino;		Green peach aphid* Leafminer (<i>Liriomyza</i> spp.)* Pepper weevil\{ Potato aphid* Thrips (foliage feeding only)\{ Tomato psyllid Whitefly*	0.088 - 0.133	13.5 - 20.5		
Pepper, bell; Pepper, nonbell; Roselle; Scarlet eggplant; Sunberry; Tomatillo; Tomato; Tree tomato	Do not apply a total of mo products per calendar year * - For best performance, * - Suppression only. Use with different modes of ac are low. If populations are before applying EXIREL Tomato Spotted Wilt Virus control to manage thrips we vector the tomato yellow I emergence or transplanting yellow leaf curl virus in fru Precautions when using Econtrol in tank mix with ac used in tank mix with EXIEXIREL insect control wifungicide), chlorothalonil and DuPontTM Tanos® fur response. Precautions when using Econtrol with strobilurin fur adverse crop response. The crop safety of EXIRE this crop group. When usiarea be tested to demonstr	and Tomato Yellow Leaf Curl Vir which may vector the tomato spott eaf curl virus at a rate of 13.5 to 2 will help suppress and slow the expre	R active or cyantranilia the soil or foliarly. e "Use of Adjuvants": ogram. Rotate with problications when popula thrips knockdown pro- us Suppression: Use of ed wilt virus and white 10.5 fl oz/A applied for ssion of tomato spotted ar increase the potential verse crop response. Taple Cabrio fungicide example, Bravo Weat example, Bravo Weat example, Bravo Weat example and Quadris fundas not been evaluated a mixtures, it is recommend.	section. oducts ations oduct EXIREL insect efflies which may liarly soon after wilt virus and tomato ions of EXIREL insect I for other products Fank mixes of and Quadris ther Stik® fungicide), a deverse crop ixes of EXIREL insect gicide) may result in on all other crops in		

			EXIREL insect	control RATE	DITI	REI
Сгор	Application Method	Target Pest	Lb ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Commercial Greenhouse Grown (Crops	Foliar	Thrips (foliage feeding only)§ Whitefly*	0.088 - 0.133	13.5 - 20.5	1	12
Grown to Harvest in Greenhouses) Eggplant, Pepper (including bell and non-bell pepper) Tomato	Do not apply a total of mor products per calendar year For use only on eggplant, greenhouse crop product nurseries, plant propagat plants being grown for tr * - For best performance, u § - Suppression only. Use modes of action. For thrips populations are above three insect control. Thorough coverage is esser plants and density of foliag Precautions when using EX control in tank mix with EXII EXIREL insect control wit fungicide), chlorothalonil be and DuPont Tanos fungicic Precautions when using EX control with strobilurin fun adverse crop response. The crop safety of EXIREI using EXIREL insect control demonstrate safety before to	as an effective adjuvant. See "Us as part of an effective control pro, begin making applications to the shold, use an effective thrips known tial to achieve best results. Selecte. Use the higher rate on large place the insect control in tank mixed juvants can cause leaf spotting of REL insect control to cause an add h strobilurin fungicides (for example as a strobilurin fungicides) (for example compared fungicides) (for example control in tank mixed gicides) (for example Cabrio funguant insect control in tank mixed gicides) (for example Cabrio funguant in tank mixture have of in tank mixtures, it is recommendations)	R active or cyantranilist the soil or foliarly. g grown to harvest in s grown for transplant transp	a commercial nting. Not for use in nt producers on n." dducts with different are low. If e applying EXIREL opriate for the size of ons of EXIREL insect for other products ank mixes of and Quadris her Stik fungicide), erse crop response. ixes of EXIREL insect gicide) may result in on eggplant. When		

	<u> </u>	1	EVIDEI inse	ect control RATE		
			EXIRELIIIS		PHI	REI (re-entry
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	(pre-harvest interval) (days)	interval) (hours)
Leafy Greens (Crop Subgroup 4- 16A) and Leaf Petiole Vegetables (Crop Subgroup 22B) including Amaranth, Chinese; amaranth, leafy; aster, Indian; blackjack; cat's whiskers; cham-chwi;	Foliar*	Beet armyworm Corn earworm Diamondback moth† Fall armyworm Western yellowstriped armyworm	0.045 - 0.088 0.065 - 0.11	7 - 13.5 10 - 17	1	12
chervil, fresh		Cabbage aphid	0.088 - 0.133	13.5 - 20.5		
leaves;		False cabbage aphid				
chipilin; chrysanthe-		Flea beetle				
mum, garland; cilantro, fresh		Green peach aphid Leafminer (<i>Liriomyza</i> spp.)				
leaves;		Thrips (foliage feeding				
corn salad; cosmos;		only)§ Turnip aphids				
dandelion,		Whitefly				
leaves; dang-gwi,	Minimum application inte	Grasshoppers erval between treatments is 5 days				
leaves;		ore than 0.4 lb ai/A of CYAZYPY		niliprole containing		
dillweed; dock;		r whether applications are made to				
dol-nam-mul;		resistance management: Do not a pre than twice within any 30 day "				
ebolo; endive;	the next "treatment windo	w" must be with an effective production	duct(s) with a differ	ent mode of action		
escarole;	(different IRAC Group No	umber) for at least a 30 day "treat	ment window" befo	re making any additional		
fameflower; feather		nsect control (or other Group 28 is ar application per acre for diamond				
cockscomb;		IRE insect control or any Group 2				
Good King Henry;	of diamondback moth at t	he same farm location.	·	•		
huauzontle;		use with an effective adjuvant. See				
jute, leaves; lettuce, bitter;		e as part of an effective thrips con Begin making applications to thr				
lettuce, head;		n effective thrips knockdown pro-				
lettuce, leaf; orach;		XIREL insect control in tank mix				
parsley, fresh		control in spinach. Tank mixes of				
leaves;		e concentrates (EC), strobilurin fu prothalonil based fungicide formu				
buckhorn;	fungicide) may result in a	dverse crop response. Precautions	when using EXIRI	EL insect control in tank		
primrose, English;		xes of EXIREL insect control with	h Aliette® fungicid	e (fosetyl-al) + oil		
purslane,	adjuvant may result in adv	verse crop response. EL insect control in tank mixture h	as not been evaluat	ed on all other crops in		
garden; purslane,		ng EXIREL insect control in tank				
winter; radicchio;		rate safety before using in large ar				
spinach;	See "Tank Mixtures and C	Crop Safety" section for more info	ormation.			
spinach, Malabar;						
spinach, New						
Zealand; spinach, tanier;						
Swiss chard;						
violet, Chinese,						
leaves;						
Cardoon; celery;						
celery,						
Chinese; fuki;						
rhubarb;						
udo; zuiki;						
cultivars,						
varieties, and hybrids of						
these						
commodities. Celtuce;						
and Florence						
Fennel		(

Crop Application Method Target Pest Lb. ai per acre per acre Tuberous and Corm Vegetables (Crop (Crop Potato Leptarous Potat	PHI (pre-harvest interval) (days)	REI (re-entry interval) (hours)						
Corm Vegetables Beet armyworm European corn borer 0.045 - 0.088 7 - 13.5	7							
Vegetables European corn borer	1	12						
Subgroup 1C) Yellowstriped armyworm								
including Cabbage looper 0.065 - 0.11 10 - 17	1							
Arracacha; Arrowroot; Artichoke, Chinese; Artichoke, Artichoke, Potato aphid* Potato psyllid Artichoke, Potato psyllid								
Jerusalem; Minimum application interval between treatments is 5 days.	1							
Canna, edible; Cassava, bitter Do not apply a total of more than 0.4 lb ai/A of CYAZYPYR active or cyantraniliprole containing								
and sweet; products per calendar year; this is the total of seed piece treatment (potato), soil treatment, and foliar								
Chayote (root); treatment. Chufa; *- For best performance use with an effective adjuvant. See "Use of Adjuvants" section.								
Dasheen (taro): § - Suppression only. Use as part of an effective control program. Rotate with products with								
Leren; different modes of action.								
Potato; †- Colorado potato beetle resistance management - Do not apply EXIREL insect control (or other Sweet potato; Group 28 insecticides) more than twice to a generation of Colorado potato beetle or within any 30 day								
Tanier; "reatment window" A polication(s) to the payt reperation of Colorado potato bestle must be with an	Group 28 insecticides) more than twice to a generation of Colorado potato beetle or within any 30 day "treatment window". Application(s) to the next generation of Colorado potato beetle must be with an							
Turmeric: Yam bean; effective product(s) with a different mode of action (different IRAC group number) for at least a 30	effective product(s) with a different mode of action (different IRAC group number) for at least a 30							
Yam, true day "treatment window" before making any additional applications of EXIREL insect control (or other	day "treatment window" before making any additional applications of EXIREL insect control (or other							
Group 28 insecticides). If a Group 28 insecticide was used at-plant either as a soil or seed piece								
application, do not apply EXIREL insect control (or other Group 28 insecticides) for Colorado potato beetle control for at least 60 days after emergence. Application(s) for Colorado potato beetle control								
during the first 30-60 days must be with an effective product with a different mode of action (i.e. a								
product with a different IRAC Group Number) for at least a 30 day "treatment window" before making								
any applications of EXIREL insect control (or other Group 28 insecticides).								
†† - Potato Tuberworm: EXIREL insect control may be applied at rates of 7 to 13.5 fl oz/A to control potato tuberworm. Begin application when field scouting indicates the presence of								
tuberworm adults and/or larvae. Potato tuberworm often have overlapping generations so repeat								
applications of EXIREL insect control may be needed based on scouting. Avoid treating								
successive generations with the same mode of action. It is important to protect the crop just prior								
to harvest when foliage starts to senesce. Use the higher rate of EXIREL insect control when								
tuberworm pressure is high. Failure to adequately control potato tuberworm larvae prior to crop senescence or vine kill increases the risk of tuber damage. Foliar sprays alone, by air or ground,								
may not provide adequate control of larvae in the mid to lower crop canopy. For best results,								
apply via overhead chemigation or integrate chemigation applications into the foliar spray								
program. For best results with foliar sprays, add Methylated seed oil (MSO) adjuvant at 1 gallon								
per 100 gallons of spray volume (1% v/v). For chemigation applications, apply in 0.1 to 0.2 acre inches of water and add MSO at 12 to 16 fl oz/acre. See "Chemigation - Overhead Sprinkler –								
Cranberries, Potatoes and Bulb Vegetables" section for instructions on overhead sprinkler								
chemigation.								
Suppression of Zebra Chip Disease: Use of EXIREL insect control to control potato psyllid which								
may vector zebra chip disease at a rate of 13.5 to 20.5 fl. oz./A applied starting when psyllid populations are low will help suppress the expression of the zebra chip disease.								
Precautions when using EXIREL insect control in tank mixes in potatoes: tank mixes of EXIREL								
insect control with strobilurin fungicides (for example Quadris fungicide and Cabrio Plus fungicide)								
may result in adverse crop response. The crop safety of EXIREL insect control in tank mixture has								
not been evaluated on all other crops in this crop group. When using EXIREL insect control in tank								
mixtures, it is recommended that a small area be tested to demonstrate safety before using in large areas.								
See "Tank Mixtures and Crop Safety" section for more information.								

			EXIREL insec	t control RATE		REI
Сгор	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Cotton	Foliar	Beet armyworm Cotton bollworm† Fall armyworm Saltmarsh caterpillar Southern armyworm Tobacco budworm† Western yellowstriped armyworm	0.045 - 0.11	7 - 17	7	12
		Cabbage looper Soybean looper	0.065 - 0.11	10 - 17		
		Whitefly* Thrips (foliage feeding only)§	0.088 - 0.133	13.5 - 20.5		
	Do not apply a total of n products per calendar year * - For best performance, populations of whiteflies, used ifferent modes of action. The action of 0.065 - 0.11 lb ai per action of 0.045 - 0.088 lb ai per action of 0.045 actions of EXIREL plants outgrow the effection of the crop safety of EXIREL using EXIREL insect control of the crop safety of EXIREL using EXIREL insect control of the crop safety of EXIREL using EXIREL insect control of the crop safety of EXIREL using EXIREL insect control of the crop safety of EXIREL using EXIREL insect control of the crop safety of EXIREL using EXIREL insect control of the crop safety of EXIREL using EXIREL insect control of the crop safety of EXIREL using EXIREL insect control of the crop safety of EXIREL using EXIREL insect control of the crop safety of EXIREL using EXIREL insect control of the crop safety of EXIREL using EXIREL insect control of the crop safety of EXIREL using EXIREL insect control of the crop safety of the crop safety of the crop safety of EXIREL using EXIREL insect control of the crop safety of the c	rval between treatments is 7 days nore than 0.4 lb ai/A of CYAZY whether applications are made to use with an effective adjuvant. use the highest listed rate. It is a spart of an effective thrips of Begin making applications to the application below the product of the control	YPYR active or cyar of the soil or foliarly. See "Use of Adjuve control program. Rot ips when populations duct before applying budworm) make the fudurent applications calling on pressure. on may result in crep response to E has not been evaluate recommended that a	ants" section. For high ate with products with a are low. If populations EXIREL insect control. first application at rates in be at rates of the presponse. Affected XIREL insect control at ted on this crop. When a small area be tested to		

		EXIREL insect control RATE				REI
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Oil Seed Crops (Crop Group 20) including Borage; Calendula; Castor oil; Chinese tallowtree; Crambe; Cuphea; Echium; Euphorbia; Evening primrose; Flax seed; Gold of pleasure; Hare's ear mustard; Jojoba; Lesquerella; Lunaria; Meadowfoam; Milkweed; Mustard seed; Niger seed; Oil radish; Poppy seed; Rapeseed (including canola varieties); Rose hip; Safflower; Sesame; Stokes aster; Sunflower; Sweet rocket; Tallowwood; Tea oil plant; Vernonia	Minimum application inte Do not apply a total of n products per calendar yea application). * - For best performance, § - Suppression only. Use modes of action. The crop safety of EXIRE When using EXIREL inse	Bertha armyworm Diamondback moth Sunflower head moth Crucifer flea beetle Cabbage looper Sunflower seed weevil§ rval between treatments is 7 days nore than 0.4 lb ai/A of CYAZY r. This is the total from all appl use with an effective adjuvant. See e as part of an effective control pr EL insect control in tank mixture ext control in tank mixtures, it is using in large areas. See "Tank N	PYR active or cycication methods (see "Use of Adjuvan rogram. Rotate with has not been evalure commended that	seed treatment and foliar tts" section. h products with different tated on this crop group. a small area be tested to	7	12

	1		EXIREL ins	ect control RATE		REI
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Peanuts	Foliar	Corn earworm Fall armyworm Tobacco budworm	0.065 - 0.133	10 - 20.5	14	12
		Cutworms Soybean looper Lesser cornstalk borer Thrips (foliage feeding only)§**	0.088 - 0.133	13.5 - 20.5		
	management program. M Do not apply a total of m products per calendar yea Tomato Spotted Wilt Vi may vector the tomato sp cracking) will help suppr as part of a TSWV manag The crop safety of EXIRI using EXIREL insect con	- Use in conjunction with an effect inimum application interval between than 0.4 lb ai/A of CYAZYPY r whether applications are made to rus Suppression: Use of EXIREL otted wilt virus at a rate of 13.5-20 ges and slow the expression of tom gement program. EL insect control in tank mixture has trol in tank mixtures, it is recommendation in tank mixtures.	en treatments is 7 of R active or cyantra the soil or foliarly insect control to r. 5 fl oz/A applied ato spotted wilt virus as not been evaluate ended that a small	lays. niliprole containing . nanage thrips which early season (at ground rus in peanuts when used red on peanuts. When area be tested to		
Soybeans	Foliar	Green cloverworm	0.065 - 0.133	10 - 20.5	7	12
		Soybean looper Velvetbean catterpillar				
		Lesser cornstalk borer Bean leaf beetle Japanese beetle Stink bug species Soybean aphid* Thrips (foliage feeding only) §*	0.088 – 0.133	13.5 – 20.5		
	§ - Suppression only. *- For best performance, use with an effective adjuvant. See "Use of Adjuvants" section. Minimum application interval between treatments is 5 days. Do not apply a total of more than 0.4 lb ai/A of CYAZYPYR active or cyantraniliprole containing					
	products per calendar year The crop safety of EXIRI group. When using EXIR tested to demonstrate safe	r whether applications are made as EL insect control in tank mixture h EL insect control in tank mixtures, ty before using in large areas. rop Safety" section for more inform	as not been evaluate, it is recommended	to the soil or foliarly.		
Tobacco	Foliar	Tobacco budworm	0.065 - 0.133	10 - 20.5	7	12
		Tomato hornworm Tobacco hornworm Flea beetle	0.088 - 0.133	13.5 - 20.5		
	Minimum application interval between treatments is 5 days. Do not apply a total of more than 0.4 lb ai/A of CYAZYPYR active or cyantraniliprole containing products per calendar year whether applications are made to the soil or foliarly. The crop safety of EXIREL insect control in tank mixture has not been evaluated on tobacco. When using EXIREL insect control in tank mixtures, it is recommended that a small area be tested to demonstrate safety before using in large areas. See "Tank Mixtures and Crop Safety" section for more information.					

Directions for Use for Fruit Crops

			EXIREL insect	control RATE		REI
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Bushberries, (Crop	Foliar	Cherry fruitworm Cranberry fruitworm	0.065 - 0.088	10 - 13.5	3	12
Subgroup 13- 07B) Aronia berry; Blueberry, highbush;		Blueberry aphid Blueberry gall midge§ Blueberry maggot Spotted wing drosophila* Plum curculio* Citrus thrips*	0.088 - 0.133	13.5 - 20.5		
Blueberry, lowbush; Buffalo currant; Chilean guava; Cranberry, highbush; Currant, black; Currant, red; Elderberry; European barberry; Gooseberry; Honeysuckle, edible; Huckleberry; Juneberry; Juneberry; Saskatoonberry; Native currant; Salal; Sea buckthorn	Do not apply a total of mo cyantraniliprole containing Spray Volume: Thorough volume appropriate for the Do not apply less than 30 water per acre. § - Suppression only. Use Rotate with products with applications when populat * - For best performance, instructions in this crop ta Precautions when using Einsect control with Induce other products used in tank mixes of EXIREL insect c adverse crop response on DO NOT tank mix EXIRE safety has been tested. The crop safety of EXIRE this crop group. When using area be tested to demonstricts of the control of the control of the control of the crop safety of EXIRE this crop group. When using the control of the contro	rval between treatments is 5 days re than 0.4 lb ai/A of CYAZYPY groducts per calendar year. It coverage is essential to achieve e size of trees or plants and densit gallons of water per acre. For best as part of an effective blueberry different modes of action. Begin ions are low. Lise with an effective adjuvant. Se ble. XIREL insect control in tank mix adjuvant may cause an adverse c mix with EXIREL insect control ontrol with other non-ionic and o	R active or best results. Select a spy of foliage. t results apply 100-150 maggot control programaking blueberry gall the "Use of Adjuvants" es in blueberries: tank crop response or incredit to cause an adverse of il based adjuvants test adjuvants on this crop tass not been evaluated a mixtures, it is recommens. The service of the ser	O gallons of am. midge section and other mixes of EXIREL ease the potential for crop response. Tank ed have not caused an o group unless crop on all other crops in mended that a small		12
Caneberry subgroup (Crop Sub-	Foliar	Adult root weevils	0.088 - 0.133	13.5 – 20.5	1	12
group 13-07A) blackberry; loganberry; red and black raspberry; wild raspberry; cultivars and/or hybrids of these	Do not apply a total of me products per calendar year Spray Volume: Thorough volume appropriate for the The crop safety of EXIRE group. When using EXIRI tested to demonstrate safet	coverage is essential to achieve esize of plants and density of fruit L insect control in tank mixture h EL insect control in tank mixtures by before using in large areas. Trop Safety" section for more info	YR active or cyantrani best results. Select a sp t and foliage. has not been evaluated t, it is recommended the	pray on this crop or crop		
Coffee	Foliar	Coffee berry borer	0.133	20.5	5	12
	Do not apply a total of me products per calendar year Time applications early it with coffee berry borer in Calibrate equipment to ac The crop safety of EXIRE group. When using EXIRI tested to demonstrate safet	erval between treatments is 14 da pre than 0.27 lb ai/A of CYAZYF r. In the pest infestation when no mo position A or B (prior to borer rehieve thorough spray coverage o L insect control in tank mixture he L insect control in tank mixtures by before using in large areas.	YR active or cyantran re than 2% of the coffi- caching the endosperm f the berry without run has not been evaluated to it is recommended the	tee berries are infested a/seed). tooff. on this crop or crop		

			EXIREL insect cor	ntrol RATE	DIVI	REI
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Crop Group 13-07H*, specifically Bearberry; bilberry;	Foliar	Cherry fruitworm Cranberry fruitworm Black headed fireworm Sparganothis fruitworm	0.065 – 0.133	10 – 20.5	14	12
cloudberry; cranberry; muntries; partridge- berry; cultivars, varieties, and/or cultivars of these. (*Excluding strawberry, lowbush blueberry, and lignonberry)	Minimum application interval between treatments is 7 days. Do not apply a total of more than 0.4 lb ai/A of CYAZYPYR active or cyantraniliprole containing products per calendar year. EXIREL insect control may be applied by overhead chemigation to cranberry. For applications made to cranberries, production fields must be drained of water at least 24 hours prior to application and water must not be reapplied to the field for a minimum of 24 hours following the application. The crop safety of EXIREL insect control in tank mixture has not been evaluated on this crop or crop group. When using EXIREL insect control in tank mixtures, it is recommended that a small area be tested to demonstrate safety before using in large areas. See "Tank Mixtures and Crop Safety" section for more information.					
Citrus Fruit, (Crop Group 10-10) Australian desert lime; Australia finger-lime; Australia	Foliar*	Asian citrus psyllid Citrus thrips** Citrus leafminer Cotton aphid Diaprepes root weevil adults Orange dog caterpillar Citrus cutworm	0.088 - 0.133	13.5 - 20.5	1	12
round lime; Brown River finger lime; Calamondin; Citron; Citrus hybrids; Grapefruit; Japanese summer grapefruit; Kumquat; Lemon; Lime; Mediterranean mandarin; Mount white lime; New Guinea wild lime; Orange, sour; Orange, sour; Orange, sweet; Pummelo; Russel River lime; Satsuma mandarin; Sweet lime; Tachibana orange; Tahiti lime; Tangelo; Tangerine (mandarin); Tangerir (mandarin); Tangor; Trifoliate orange; Uniq fruit	Do not apply a total of mo containing products per ca Spray Volume: Thorough volume appropriate for the Where higher spray volum specified rate range. For busing commercial airblast when using commercial ai applications for Asian citr spray solution per acre, us microns, apply when wind * - For best performance, 1 ** - For fruit protection, a oz/A. Initial applications moderate to high pest presthrips insecticide may be ror scout treated fields 5-7 population. If early signs of Time applications to the marvae, before populations	Forktailed bush katydid nymph rval between treatments is 7 days. The than 0.4 lb ai/A of CYAZYPY lendar year. It coverage is essential to achieve less are used, apply a higher EXIR est results, apply 100-150 gallons equipment. Do not apply less than rblast equipment. Requirements for use syllid control: Do not apply less than its less than 10 miles per hour. Use with an effective adjuvant. See pply EXIREL insect control at perhould be made at petal fall when its sure, an additional application of the feeding (such as silvering) are of feeding (such as silvering) are const susceptible insect pest stage, reach damaging levels. Application of protecting fruit from thrips dan	R active or cyantranilists test results. Select a spay of foliage. EL insect control rate of water per acre when 30 gallons of water per Low volume grounders than 2 gallons of fice size greater than 90 e "Use of Adjuvants" at al fall, best results are insect populations first EXIREL insect control ons below action thres seeding on fruit or an inobserved on fruit, maketypically at egg hatch consolidations outside the describer.	oray in the n er acre d nished 0 section. e obtained with 20.5 appear. Under old or another effective shold levels. Monitor crease in thrips e another application. and/or newly hatched		

			EXIREL insect control RATE			227
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	REI (re-entry interval) (hours)
Pome Fruit, (Crop Group 11-10) Apple; Azarole; Crabapple; Loquat; Mayhaw; Medlar; Pear;	Foliar	Codling moth† European apple sawfly Green fruitworm Obliquebanded leafroller†† Redbanded leafroller Spotted teniform leafminer Western tentiform leafminer Tufted apple budmoth Variegated leafroller White apple leafhopper	East of the Rockies: 0.055 - 0.11 West of the Rockies: 0.065 - 0.11	East of the Rockies: 8.5 - 17 West of the Rockies: 10 - 17	3	12
Pear, Asian;		Oriental fruit moth	0.065 - 0.11	10 - 17		
Quince; Quince, Chinese; Quince, Japanese; Tejocote		Apple maggot* § Pear psylla* § Plum curculio* Rosy apple aphid*††† Thrips* §	0.088 - 0.133	13.5 - 20.5		
	Minimum application interval between treatments is 7 days. Do not apply a total of more than 0.4 lb ai/A of CYAZYPYR active or cyantraniliprole containing products per calendar year. Make no more than 3 applications of EXIREL insect control or other Group 28 insecticides within a single generation of the target pest on a crop. Spray Volume: Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the size of trees or plants and density of foliage. Do not apply less than 30 gallons of water per acre. For best results apply 100-150 gallons of water per acre. * - For best performance, use with an effective adjuvant. See "Use of Adjuvants" section. § - Suppression only. For best results, use the highest rate listed. Use as part of an effective control program. Rotate with products with a different mode of action. Begin applications when pest populations are at or below threshold. If populations are above threshold, use an effective knockdown product before applying EXIREL insect control. † - Codling moth larvae Application timing: For each generation, make the first application prior to egg hatch. Each application provides 10-14 days of protection depending on intensity of codling moth pressure and rate of fruit growth. Use pheromone trap catches and local degree day based spray timing advisories to determine the development of each generation. Use the 8.5-10 fluid ounce rate for low pressure infestations and make repeat applications on a 14 day schedule. For high pressure orchards, use a comprehensive management program involving ovicide treatments followed by properly timed larvacide applications at high labeled rates and shortened retreatment intervals. When using EXIREL insect control (or other Group 28 insecticides) more than three times to a generation of codling moth (codling moth typically has a single generation "treatment window" of 30 to 45 days). Application(s) to the next generation of codling moth must be with an effective product(s) with a different mode o					

			EXIREL insect	control RATE	-	REI
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	(re-entry interval) (hours)
Stone Fruit (Crop Group 12) including,	Foliar	Cherry fruit fly* Codling moth Omnivorous leafroller Tufted apple budmoth	0.065 - 0.11	10 - 17	3	12
Apricot; Cherry, sweet; Cherry, sour;		Obliquebanded leafroller Oriental fruit moth Peach twig borer†	0.065 - 0.133	10 - 20.5		
Nectarine; Peach; Plum; Plum, Chickasaw; Plum, Damson; Plum,		Spotted wing drosophila* Black cherry aphid Japanese beetle Plum curculio Thrips§	0.088 - 0.133	13.5 - 20.5		
Japanese; Plumcot; Prune (fresh)	Do not apply a total of mo containing products per cat Make no more than 3 appl within a single generation * - For best performance, to other instructions on this tat Spray Volume: Thorough volume appropriate for the Do not apply less than 30 of water per acre. § - Suppression only. For the program. Rotate with product before applying Extra Peach Twig Borer: For EXIREL insect control; for an EPA registered dorman specific oil labels for precausing ground equipment to May spray" applications to before peak egg lay). High and/or large, dense foliage Precautions when using Exinsect control with some nof EXIREL insect control crop response on cherry legistered control crop response con	Minimum application interval between treatments is 7 days. Do not apply a total of more than 0.4 lb ai/A of CYAZYPYR active or cyantraniliprole containing products per calendar year. Make no more than 3 applications of EXIREL insect control or other Group 28 insecticides within a single generation of the target pest on a crop. * - For best performance, use with an effective adjuvant. See "Use of Adjuvants" section and other instructions on this table for more information. Spray Volume: Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the size of trees or plants and density of foliage. Do not apply less than 30 gallons of water per acre by ground. For best results apply 100-150 gallons				

Crop	Application Method	Target Pest	EXIREL inse	ct control RATE	PHI (pre-harvest interval) (days)	REI
			Lb. ai per acre	fluid ounces product per acre		(re-entry interval) (hours)
Tree Nuts (Crop	Foliar*	Hickory shuckworm Pecan nut casebearer	0.055 - 0.11	8.5 - 17	5	12
Group 14-12) including African nut-tree;		Codling moth† Obliquebanded leafroller Oriental fruit moth Peach twig borer††	0.065 - 0.133	10 - 20.5		
almond; beechnut;		Navel orangeworm††† Walnut aphid	0.088 - 0.133	13.5 - 20.5		
Brazil nut; Brazilian pine; bunya; bur oak; butternut; Cajou nut; candlenut; cashew; chestnut; chinquapin; coconut; coquito nut; dika nut; ginkgo; Guiana chestnut; hazelnut (filbert); heartnut; hickory nut; Japanese horse-chestnut; macadamia nut; mongongo nut; monkey-pot; monkey-pot; monkey-puzzle nut; Okari nut; Pachira nut; peach palm nut; peach palm nut; pein nut; pistachio; Sapucaia nut; tropical almond; walnut, Englist yellowhorn; cultivars, varieties, and/or hybrids of these	Do not apply a total of mo containing products per ca Make no more than 3 appl within a single generation Spray Volume: Thorough volume appropriate for the Where higher spray volum than 30 gallons of water p * - For best performance u † - Codling moth (Walnu generation. Depending on ground application equipn †† - Peach Twig Borer: For dormant applications, For specific directions on restrictions regarding the equipment to achieve thor overwintering generation: For "April - May" applicat at or before peak egg lay). levels and large, dense fol ††† - Navel orangeworm timing. For applications make a second application of higher rates in the label Precautions when using Econtrol with oil adjuvants products used in tank mix of EXIREL insect control response. DO NOT tank in	ications of EXIREL insect control of the target pest on a crop. It coverage is essential to achieve the size of trees or plants and densities are used, apply a higher rate in er acre by ground. For best results se with an effective adjuvant. See the control in the size of the control in the size of oil, consult manufacturer's use of oil, consult manufacturer's use of oils in tree nut crops. For brough uniform coverage of all scal Make applications at late dormantions to the summer generation: Migher rates in the labeled rate rates.	R active or cyantran all or other Group 28 best results. Select a y of foliage. In the specified rate rest apply 100-150 gall to "Use of Adjuvants' before peak egg lay fays later as needed. Use. In the specific oil labels for	insecticides spray ange. Do not apply less ons of water per acre. "section. For targeted Use higher rates and owing season. pray tank. or precautions and obly using ground or spring application to oreak) to early bloom. peak moth flight (timed for higher infestation r "Hull split" application 2% hull-split timing; of pest infestation, use d. mixes of EXIREL insect otential for other r response. Tank mixes ause an adverse crop avant unless crop safety		

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(Derived from draft Exirel insect control label D-2067MSTR 111318)